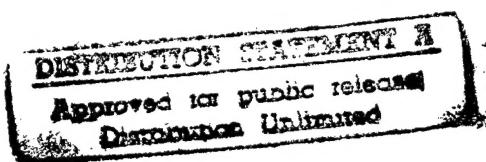


# Water Savings Opportunity Survey (WSOS)

## Fort Belvoir, Virginia

### Field Notes

#### Volume 1 of 1



CONTRACT #DACA01-94-D-0034  
DELIVERY ORDER 0009  
SYSTEMS CORP PROJECT #94013.09

August 31, 1995

**SYSTEMS**  
*corp*

SYSTEMS ENGINEERING AND MANAGEMENT CORPORATION



Baltimore District  
U.S. Army Corps  
of Engineers

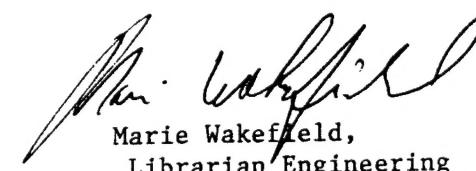


DEPARTMENT OF THE ARMY  
CONSTRUCTION ENGINEERING RESEARCH LABORATORIES, CORPS OF ENGINEERS  
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Librarian Engineering

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# Family Housing

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Family Housing  
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2785 A	24

DTIC QUALITY INSPECTED 2

19971023 094

FAMILY HOUSING LIST						
FAMILY HOUSING UNIT SURVEYED				UNITS TYPIFIED BY SURVEYED UNIT		
FAC NO.	CAT CODE	DESIGNATION	SQ FT	NO BDRM	YR CNST	

#### BELVOIR VILLAGE HOUSING AREA

1	71111	FH GEN	7262	6	35	2	3	4	5	6	7	8	9	10	11
						12	13	14	15	16	17	18	19	21	22
						23	24	25	26	27	28	29	30	31	32
						33	34	35	36	37	38	39	40	41	42
						43	44	45	46	47	48	49	50	51	52
						53	54	55	56	57	58	59	60	67	68

BELVOIR VILLAGE HOUSING AREA TOTAL NUMBER OF UNITS: 61

#### GERBER VILLAGE HOUSING AREA

150	71115	FH NCO & ENL	2237	4	31	101	102	103	104	105	106	107	108	109	110
			SURVEYED, 5909 20th ST				111	112	114	115	116	117	118	119	120
						122	123	124	125	126	127	128	129	130	131
						132	133	134	135	136	137	138	139	140	141
						142	143	144	145	146	147	148	149	151	152
						153	155	157	159	161	162	163	164	165	166 A
						166 B	167 A	167 B	168 A	168 B	169 A	169 B	170 A	170 B	171 A
						171 B	500 A	501 A	502 A	503 A					

GERBER VILLAGE HOUSING AREA TOTAL NUMBER OF UNITS: 76

#### JADWIN AND ROSEL VILLAGE HOUSING AREAS

417 B	71113	FH LC & MAJ	2089	4	55	406 A	406 B	407 A	407 B	408 A	408 B	409 A	409 B	410 A	410 B	
			SURVEYED, 5427 ROSSEL LOOP				411 A	411 B	412 A	412 B	413 A	413 B	414 A	414 B	415 A	
						416 A	416 B	417 A	417 B	418 A	418 B	419 A	419 B	420 A	420 B	
						421 B	422 A	422 B	423 A	423 B	424 A	424 B	425 A	425 B	426 A	
						426 B	427 A	427 B	428 A	428 B	429 A	429 B	430 A	430 B	431 A	
						431 B	432 A	432 B								

FAMILY HOUSING LIST						
FAC NO.	CAT CODE	FAMILY HOUSING UNIT SURVEYED			UNITS TYPIFIED BY SURVEYED UNIT	
		DESIGNATION	SQ FT	NO BDRM	YR CNST	
455 B	71113	FH LLC & MAJ	2541	3	55	451 A 451 B 451 C 451 D 451 E 452 A 452 B 452 C 452 D 452 E
		SURVEYED - 5457 JADWIN LOOP				453 A 453 B 453 C 453 D 453 E 454 A 454 B 454 C 454 D 454 E
468 A	71113	FH LLC & MAJ	1809	3	21	401 A 401 B 402 A 402 B 403 A 403 B 404 A 404 B 405 A 405 B
		SURVEYED - T-468 JADWIN LOOP				436 A 437 A 438 A 439 A 440 A 441 A 442 A 457 A 458 A 459 A
						460 A 461 A 462 A 463 A 464 A 465 A 466 A 467 A 469 A 479 A
						480 A 481 A 483 A 484 A 487 A 488 A 489 A 490 A 491 A 492 A
						493 A 494 A 496 A

JADWIN AND ROSEL VILLAGE HOUSING AREAS TOTAL NUMBER OF UNITS: 123

FAIRFAX VILLAGE HOUSING AREA						
FAC NO.	CAT CODE	FAIRFAX VILLAGE HOUSING AREA			FAIRFAX VILLAGE HOUSING AREA	
		1467	3	60	510 A	510 B
522 A	71124	FH CAPE CG & WO			510 A	510 B
		SURVEYED - 10401 FORNEY LOOP			515 A	515 B
					520 A	520 B
					525 B	526 A
					530 B	531 A
					535 B	536 A
					540 B	541 A
					545 B	546 A
					550 B	551 A
					555 B	556 A
					560 B	561 A
					565 B	566 A
					570 B	571 A
					575 B	576 A
					580 B	581 A

FAIRFAX VILLAGE HOUSING AREA TOTAL NUMBER OF UNITS: 148

FAMILY HOUSING LIST									
FAMILY HOUSING UNIT SURVEYED					UNITS TYPIFIED BY SURVEYED UNIT				
FAC NO.	CAT CODE	DESIGNATION	SQ FT	NO BDRM	YR CNST				

**COLYER VILLAGE HOUSING AREA**

810 C	71115	FH NCO & ENL	1530	2	50	809 A	809 B	809 C	809 D	810 A	810 B	810 D	810 E	810 F	810 G
<b>SURVEYED - 5895 PETERSON LOOP</b>															
810 H		810 I	810 J	811 A	811 B	811 C	811 D	811 E	811 F	813 E	813 F	813 G	813 H	813 I	813 J
811 H		811 I	811 J	813 A	813 B	813 C	813 D	813 E	813 F	815 E	815 F	815 G	815 H	815 I	815 J
816 B		817 A	817 B	818 A	818 B	818 C	818 D	818 E	818 F	819 A	819 B	820 A	820 B	821 A	821 B
821 B		822 A	822 B	823 A	823 B	823 C	823 D	823 E	823 F	824 A	824 B	825 A	825 B	826 A	826 B
826 B		827 A	827 B	828 A	828 B	828 C	828 D	828 E	828 F	829 A	829 B	830 A	830 B	831 A	831 B
831 B		832 A	832 B	833 A	833 B	833 C	833 D	833 E	833 F	834 A	834 B	835 A	835 B	836 A	836 B
836 B		837 A	837 B	838 A	838 B	838 C	838 D	838 E	838 F	839 A	839 B	840 A	840 B	841 A	841 B
841 B		842 A	842 B	843 A	843 B	843 C	843 D	843 E	843 F	844 A	844 B	845 A	845 B	846 A	846 B
846 B															

COLYER VILLAGE HOUSING AREA TOTAL NUMBER OF UNITS: 92

**DOGUE CREEK VILLAGE HOUSING AREA**

902 C	71115	FH NCO & ENL	1137	2	56	900 A	900 B	900 C	900 D	900 E	901 A	901 B	901 C	901 D	901 E
<b>SURVEYED - 9616 BARLOW RD</b>															
901 F		902 A	902 B	902 C	902 D	902 E	902 F	902 G	902 H	903 A	903 B	903 C	903 D	903 E	

924 B	71115	FH NCO & ENL	1137	2	56	904 A	904 B	904 C	904 D	904 E	905 A	905 B	905 C	905 D	905 E
<b>SURVEYED - 9623 MALONEY RD</b>															
906 A		906 B	906 C	906 D	906 E	907 A	907 B	907 C	907 D	907 E	908 A	908 B	908 C	908 D	908 E
907 F		907 G	907 H	907 I	908 A	908 B	908 C	908 D	908 E	908 F	910 A	910 B	910 C	910 D	910 E
909 A		909 B	909 C	909 D	909 E	911 A	911 B	911 C	911 D	911 E	912 A	912 B	912 C	912 D	912 E
911 A		911 B	911 C	911 D	911 E	913 A	913 B	913 C	913 D	913 E	914 A	914 B	914 C	914 D	914 E
913 A		913 B	913 C	913 D	913 E	914 F	914 G	914 H	914 I	915 A	915 B	915 C	915 D	915 E	916 A
916 B		916 C	916 D	916 E	916 F	918 A	918 B	918 C	918 D	918 E	919 A	919 B	919 C	919 D	919 E
918 A		918 B	918 C	918 D	918 E	919 F	919 G	919 H	919 I	920 A	920 B	920 C	920 D	920 E	920 F
921 A		921 B	921 C	921 D	921 E	922 F	922 G	922 H	922 I	922 A	922 B	922 C	922 D	922 E	
922 F		922 G	922 H	922 I	923 A	923 B	923 C	923 D	923 E	923 F	924 A	924 B	924 C	924 D	
924 D		924 E	924 F	924 G	925 A	925 B	925 C	925 D	925 E	926 A	926 B	926 C	926 D	926 E	
926 D		926 E	926 F	926 G	927 A	927 B	927 C	927 D	927 E	928 A	928 B	928 C	928 D	928 E	
928 C		928 D	928 E	928 F	928 G	928 H	928 I	928 J	929 A	929 B	929 C	929 D	929 E	929 F	
929 E		930 A	930 B	930 C	930 D	930 E	931 A	931 B	931 C	931 D					

## FAMILY HOUSING LIST

FAMILY HOUSING UNIT SURVEYED						UNITS TYPIFIED BY SURVEYED UNIT									
FAC NO.	CAT CODE	DESIGNATION	SQ FT	NO BDRM	YR CNST	931 E	932 A	932 B	932 C	932 D	932 E	933 A	933 B	933 C	933 D
		933 E	933 F	933 G	933 H	933 I	934 A	934 B	934 C	934 D	934 E	934 F	934 G	934 H	934 I
		934 F	934 G	934 H	934 I	935 A	935 B	935 C	935 D	935 E	935 F	935 G	935 H	935 I	935 J
		936 A	936 B	936 C	936 D	936 E	936 F	936 G	936 H	936 I	936 J	936 K	936 L	936 M	936 N
		937 B	937 C	937 D	937 E	938 A	938 B	938 C	938 D	938 E	938 F	938 G	938 H	938 I	938 J
		938 G	938 H	938 I	939 A	939 B	939 C	939 D	939 E	939 F	940 A	940 B	940 C	940 D	940 E
		940 B	940 C	940 D	940 E	940 F	940 G	940 H	940 I	940 J	941 A	941 B	941 C	941 D	941 E
		941 C	941 D	941 E	942 A	942 B	942 C	942 D	942 E	942 F	943 A	943 B	943 C	943 D	943 E
		943 C	943 D	943 E	944 A	944 B	944 C	944 D	944 E	944 F	944 G	944 H	944 I	944 J	944 K

DOGUE CREEK VILLAGE HOUSING AREA TOTAL NUMBER OF UNITS: 270

## GEORGE WASHINGTON VILLAGE HOUSING AREA

1533 A	71125	FH CAPE NCO ENL	1296	3	60	1501 A	1501 B	1502 A	1502 B	1503 A	1503 B	1504 A	1504 B	1505 A	1505 B
SURVEYED - 9170 MILLER RD															
1511 A	1511 B	1512 A	1512 B	1513 A	1513 B	1514 A	1514 B	1514 C	1514 D	1514 E	1514 F	1514 G	1514 H	1514 I	1515 B
1516 A	1516 B	1517 A	1517 B	1518 A	1518 B	1519 A	1519 B	1519 C	1519 D	1519 E	1519 F	1520 A	1520 B	1520 C	1520 D
1521 A	1521 B	1522 A	1522 B	1523 A	1523 B	1524 A	1524 B	1524 C	1524 D	1524 E	1524 F	1525 A	1525 B	1525 C	1525 D
1526 A	1526 B	1527 A	1527 B	1528 A	1528 B	1529 A	1529 B	1529 C	1529 D	1529 E	1529 F	1530 A	1530 B	1530 C	1530 D
1531 A	1531 B	1532 A	1532 B	1533 A	1533 B	1534 A	1534 B	1534 C	1534 D	1534 E	1534 F	1535 A	1535 B	1535 C	1536 A
1536 B	1537 A	1537 B	1538 A	1538 B	1539 A	1539 B	1540 A	1540 B	1540 C	1540 D	1540 E	1541 A	1541 B	1541 C	1541 D
1541 B	1542 A	1542 B	1543 A	1543 B	1544 A	1544 B	1544 C	1544 D	1544 E	1544 F	1545 A	1545 B	1546 A	1546 B	1546 C
1546 B	1547 A	1547 B	1548 A	1548 B	1549 A	1549 B	1549 C	1549 D	1549 E	1549 F	1550 A	1550 B	1551 A	1551 B	1551 C
1551 B	1552 A	1552 B	1553 A	1553 B	1554 A	1554 B	1554 C	1554 D	1554 E	1554 F	1555 A	1555 B	1556 A	1556 B	1556 C
1556 B	1557 A	1557 B	1558 A	1558 B	1559 A	1559 B	1560 A	1560 B	1560 C	1560 D	1561 A	1561 B	1562 A	1562 B	1562 C
1566 B	1567 A	1567 B	1568 A	1568 B	1569 A	1569 B	1570 A	1570 B	1570 C	1570 D	1571 A	1571 B	1572 A	1572 B	1572 C
1571 B	1572 A	1572 B													

GEORGE WASHINGTON VILLAGE HOUSING AREA TOTAL NUMBER OF UNITS: 144

## RIVER VILLAGE HOUSING AREA

1641 B	71125	FH CAPE NCO ENL	1467	3	60	1601 A	1601 B	1602 A	1602 B	1603 A	1603 B	1604 A	1604 B	1605 A	1605 B
SURVEYED - 5424 YORK RD															
1606 A	1606 B	1607 A	1607 B	1608 A	1608 B	1609 A	1609 B	1610 A	1610 B	1611 A	1611 B	1612 A	1612 B	1613 A	1613 B
1616 A	1616 B	1617 A	1617 B	1618 A	1618 B	1619 A	1619 B	1620 A	1620 B	1621 A	1621 B	1622 A	1622 B	1623 A	1623 B

## FAMILY HOUSING LIST

FAC NO.	CAT CODE	FAMILY HOUSING UNIT SURVEYED			UNITS TYPIFIED BY SURVEYED UNIT								
		DESIGNATION	SQ FT	NO BDRM	YR CNST	1621 A	1622 A	1623 A	1623 B	1624 A	1624 B	1625 A	1625 B
1626 A	1626 B	1627 A	1627 B	1628 A	1628 B	1629 A	1629 B	1630 A	1630 B	1634 B	1634 A	1635 A	1635 B
1631 A	1631 B	1632 A	1632 B	1633 A	1633 B	1634 A	1634 B	1635 A	1635 B	1639 A	1639 B	1640 A	1640 B
1636 A	1636 B	1637 A	1637 B	1638 A	1638 B	1644 A	1644 B	1645 A	1645 B	1649 A	1650 A	1651 A	1651 A
1641 A	1642 A	1642 B	1643 A	1643 B	1648 A	1648 B	1649 A	1649 B	1654 A	1654 B	1655 A	1655 B	1656 A
1646 B	1647 A	1647 B	1652 B	1653 A	1653 B	1659 A	1659 B	1660 A	1660 B	1664 A	1665 A	1665 B	1666 A
1651 B	1652 A	1657 B	1658 A	1658 B	1662 B	1663 A	1663 B	1668 B	1669 A	1670 A	1670 B	1671 A	1671 A
1656 B	1657 A	1672 A	1672 B	1673 A	1673 B	1678 A	1678 B	1679 A	1679 B	1674 A	1674 B	1675 A	1676 A
1661 B	1662 A	1677 A	1677 B	1678 A	1681 A	1682 A	1682 B	1683 A	1683 B	1688 A	1688 B	1689 A	1689 B
1666 B	1667 A	1671 B	1671 B	1673 A	1686 B	1687 A	1687 B	1688 A	1688 B	1694 A	1694 B	1690 A	1690 B
1691 A	1691 B	1692 A	1692 B	1693 A	1693 B								

RIVER VILLAGE HOUSING AREA TOTAL NUMBER OF UNITS: 189

## LEWIS HEIGHTS HOUSING AREA

1702 F	71135	FH ACWH NCO ENL	1240	3	58	1701 A	1701 F	1702 A	1703 A	1703 B	1703 D	1707 A	1707 D	1725 A	1725 F
1703 D	71135	FH ACWH NCO ENL	1240	3	58	1732 B1	1732 B2	1732 B3	1732 B4	1732 C1	1732 C2	1732 C3	1732 C4		
1723 A1	71135	FH ACWH NCO ENL	789	2	58	1701 B	1701 C	1701 D	1701 E	1702 B	1702 C	1702 D	1702 E	1703 C	1704 A1
						1704 A2	1704 A3	1704 A4	1704 B1	1704 B2	1704 B3	1704 B4	1704 C1	1704 C2	1704 C3
						1704 C4	1705 A1	1705 A2	1705 A3	1705 A4	1705 B1	1705 B2	1705 B3	1705 B4	1705 C1
						1705 C2	1705 C3	1705 C4	1706 A1	1706 A2	1706 A3	1706 A4	1706 B1	1706 B3	1706 B4
						1706 C1	1706 C2	1706 C3	1706 C4	1707 B	1707 C	1708 A1	1708 A2	1708 A3	1708 A4
						1708 B1	1708 B2	1708 B3	1708 B4	1708 C1	1708 C2	1708 C3	1708 C4	1709 A1	1709 A2
						1709 A3	1709 A4	1709 B1	1709 B2	1709 B3	1709 B4	1709 C1	1709 C2	1709 C3	1709 C4
						1710 A1	1710 A2	1710 A3	1710 A4	1710 B1	1710 B2	1710 B3	1710 B4	1710 C1	1710 C2
						1710 C3	1710 C4	1711 A1	1711 A2	1711 A3	1711 A4	1711 B1	1711 B2	1711 B3	1711 B4
						1711 C1	1711 C2	1711 C3	1711 C4	1712 A1	1712 A2	1712 A3	1712 A4	1712 B1	1712 B2
						1712 B3	1712 B4	1712 C1	1712 C2	1712 C3	1712 C4	1713 A1	1713 A2	1713 A3	1713 A4
						1713 B1	1713 B2	1713 B3	1713 B4	1713 C1	1713 C2	1713 C3	1713 C4	1714 A1	1714 A2

## FAMILY HOUSING LIST

FAMILY HOUSING UNIT SURVEYED				UNITS TYPIFIED BY SURVEYED UNIT		
FAC NO.	CAT CODE	DESIGNATION	SQ FT	NO BDRM	YR CNST	
1714 A3	1714 A4	1714 B1	1714 B2	1714 B3	1714 B4	1714 C1
1715 A1	1715 A2	1715 A3	1715 A4	1715 B1	1715 B2	1715 B3
1715 C3	1715 C4	1716 A1	1716 A2	1716 A3	1716 A4	1716 B1
1716 C1	1716 C2	1716 C3	1716 C4	1717 A1	1717 A2	1717 A3
1717 B3	1717 B4	1717 C1	1717 C2	1717 C3	1717 C4	1718 A1
1718 B1	1718 B2	1718 B3	1718 B4	1718 C1	1718 C2	1718 C3
1719 A3	1719 A4	1719 B1	1719 B2	1719 B3	1719 B4	1719 C1
1720 A1	1720 A2	1720 A3	1720 A4	1720 B1	1720 B2	1720 B3
1720 C3	1720 C4	1721 A1	1721 A2	1721 A3	1721 A4	1721 B1
1721 C1	1721 C2	1721 C3	1721 C4	1722 A1	1722 A2	1722 A3
1722 B3	1722 B4	1722 C1	1722 C2	1722 C3	1722 C4	1723 A2
1723 B2	1723 B3	1723 B4	1723 C1	1723 C2	1723 C3	1723 C4
1724 A4	1724 B1	1724 B2	1724 B3	1724 B4	1724 C1	1724 C2
1725 C	1725 D	1725 E	1726 A1	1726 A2	1726 A3	1726 A4
1726 B4	1726 C1	1726 C2	1726 C3	1726 C4	1727 A1	1727 A2
1727 B2	1727 B3	1727 B4	1727 C1	1727 C2	1727 C3	1727 C4
1728 A4	1728 B1	1728 B2	1728 B3	1728 B4	1728 C1	1728 C2
1729 A2	1729 A3	1729 A4	1729 B1	1729 B2	1729 B3	1729 B4
1729 C4	1730 A1	1730 A2	1730 A3	1730 A4	1730 B1	1730 B2
1730 C2	1730 C3	1730 C4	1731 A1	1731 A2	1731 A3	1731 A4
1731 B4	1731 C1	1731 C2	1731 C3	1731 C4	1732 A1	1732 A2
1733 A2	1733 A3	1733 A4	1733 B1	1733 B2	1733 B3	1733 B4
1733 C4	1734 A1	1734 A2	1734 A3	1734 A4	1734 B1	1734 B2
1734 C2	1734 C3	1734 C4	1735 A1	1735 A2	1735 A3	1735 A4
1735 B4	1735 C1	1735 C2	1735 C3	1735 C4	1736 A1	1736 A2
1736 B2	1736 B3	1736 B4	1736 C1	1736 C2	1736 C3	1736 C4
1737 A4	1737 B1	1737 B2	1737 B3	1737 B4	1737 C1	1737 C2
1738 A2	1738 A3	1738 A4	1738 B1	1738 B2	1738 B3	1738 C1
1738 C4	1739 A3	1739 A4	1739 A5	1739 A6	1739 B1	1739 B2
1739 C2	1739 C3	1739 C4	1740 A3	1740 A4	1740 A5	1740 B1
1740 B4	1740 C1	1740 C2	1740 C3	1740 C4		

LEWIS HEIGHTS HOUSING AREA TOTAL NUMBER OF UNITS: 446

## FAMILY HOUSING LIST

### FAMILY HOUSING UNIT SURVEYED

FAC NO.	CAT CODE	DESIGNATION	SQ FT	NO BDRM	YR CNST	WOODLAWN VILLAGE HOUSING AREA										
						UNITS TYPIFIED BY SURVEYED UNIT					UNITS TYPIFIED BY SURVEYED UNIT					
2785 A	71115	FH NCO & ENL	1452	2	81	2600 A	2600 B	2600 C	2600 D	2601 A	2601 B	2601 C	2601 D	2602 A	2602 B	
SURVEYED - 8454 WELLHOUSE CTS.																
2603 A	2603 B	2603 C	2603 D	2604 A	2604 B	2604 C	2604 D	2605 A	2605 B	2605 C	2605 D	2606 A	2606 B	2607 A	2607 B	
2605 C	2605 D	2606 A	2606 B	2607 A	2607 B	2607 C	2607 D	2608 A	2608 B	2609 A	2609 B	2610 A	2610 B	2611 A	2611 B	
2608 C	2608 D	2610 A	2610 B	2611 A	2611 B	2611 C	2611 D	2612 A	2612 B	2613 A	2613 B	2613 C	2613 D	2614 A	2614 B	
2613 A	2613 B	2613 C	2613 D	2614 A	2614 B	2615 A	2615 B	2616 A	2616 B	2617 A	2617 B	2617 C	2617 D	2618 A	2618 B	
2616 C	2616 D	2617 A	2617 B	2617 C	2617 D	2618 A	2618 B	2618 C	2618 D	2619 A	2619 B	2619 C	2619 D	2620 A	2620 B	
2619 A	2619 B	2619 C	2619 D	2620 A	2620 B	2620 C	2620 D	2621 A	2621 B	2622 A	2622 B	2622 C	2622 D	2623 A	2623 B	
2622 C	2622 A	2622 B	2622 C	2622 D	2623 A	2623 B	2623 C	2623 D	2624 A	2624 B	2624 C	2624 D	2625 A	2625 B	2626 A	2626 B
2624 B	2625 A	2625 B	2625 C	2626 A	2626 B	2627 A	2627 B	2627 C	2627 D	2628 A	2628 B	2629 A	2629 B	2630 A	2630 B	
2628 B	2629 A	2629 B	2629 C	2630 A	2630 B	2630 C	2631 A	2631 B	2631 D	2631 A	2631 B	2632 A	2632 B	2633 A	2633 B	
2632 A	2632 B	2633 A	2633 B	2634 A	2634 B	2635 A	2635 B	2635 C	2635 D	2636 A	2636 B	2637 A	2637 B	2637 C	2637 D	
2636 A	2636 B	2637 A	2637 B	2637 C	2637 D	2638 A	2638 B	2638 C	2638 D	2639 A	2639 B	2639 C	2639 D	2640 A	2640 B	
2639 A	2639 B	2639 C	2639 D	2640 A	2640 B	2641 A	2641 B	2641 C	2641 D	2642 A	2642 B	2642 C	2642 D	2643 A	2643 B	
2642 A	2642 B	2642 C	2642 D	2643 A	2643 B	2643 C	2643 D	2644 A	2644 B	2645 A	2645 B	2646 A	2646 B	2646 C	2646 D	
2645 A	2645 B	2646 A	2646 B	2646 C	2646 D	2647 A	2647 B	2648 A	2648 B	2649 A	2649 B	2649 C	2649 D	2650 A	2650 B	
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2661 B	2661 C	2661 D	2662 A	2662 B	2662 C	2662 D	2663 A	2663 B	2664 A	2664 B	2664 C	2664 D	2665 A	2665 B	2665 C	2665 D
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2711 C	2711 D	2712 A	2712 B	2713 A	2713 B	2713 C	2713 D	2714 A	2714 B	2715 A	2715 B	2716 A	2716 B	2717 A	2717 B	
2715 A	2715 B	2716 A	2716 B	2717 A	2717 B	2717 C	2717 D	2718 A	2718 B	2719 A	2719 B	2719 C	2719 D	2720 A	2720 B	
2719 C	2719 A	2719 B	2719 C	2719 D	2720 A	2720 B	2730 A	2730 B	2730 C	2730 D	2731 A	2731 B	2731 C	2732 A	2732 B	2733 A
2730 D	2731 A	2731 B	2731 C	2732 A	2732 B	2733 A	2733 B	2733 C	2733 D	2734 A	2734 B	2735 A	2735 B	2735 C	2736 A	2736 B
2733 D	2734 A	2734 B	2735 A	2735 B	2735 C	2735 D	2735 E	2735 F	2735 G	2735 H	2735 I	2735 J	2735 K	2735 L	2735 M	2735 N

FAMILY HOUSING LIST						
FAMILY HOUSING UNIT SURVEYED					UNITS TYPIFIED BY SURVEYED UNIT	
FAC NO.	CAT CODE	DESIGNATION	SQ FT	NO BDRM	YR CNST	
		2737 B	2737 C	2737 D	2738 A	2738 B
		2740 A	2740 B	2750 A	2750 B	2750 C
		2752 B	2753 A	2753 B	2753 C	2753 D
		2756 A	2756 B	2757 A	2757 B	2758 A
		2759 C	2759 D	2760 A	2760 B	2760 C
		2770 A	2770 B	2770 C	2771 A	2771 B
		2773 B	2773 C	2773 D	2774 A	2774 B
		2776 B	2780 A	2780 B	2780 C	2781 A
		2783 A	2783 B	2784 A	2784 B	2785 B
		2787 B	2787 C	2787 D		

WOODLAWN VILLAGE HOUSING AREA TOTAL NUMBER OF UNITS: 444

FORT BELVOIR - TOTAL NUMBER OF FAMILY HOUSING UNITS: 2093

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE: 6-21-95

FACILITY NO.: 1 GEN's QTRS

Year Const: 1935

Function

FAMILY HOUSING

No of Occupants 6 BDR/4 1/2 BATH

Operating Hours: 24 HR - 365 DAYS/YR  
BELVOIR DRIVE

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	4	
KIT SINK	AERATOR	9.5	1	
2 Utility Sinks				
3 Water Closets	AM. STD	LPF 13.2	4	
4 Urinals				
5 Shower Heads	FLOW CONTROL	LPM 7.0	3	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO. :	#150 5909 20th Street	Year Const:	1931	
No of Occupants	48DR/1.75 BATH	Function	FAMILY HOUSING	
		Operating Hours:	24 HRS/365 DAYS/YR	
GERBER VILLAGE				
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR KIT SINK AERATOR	9.5 9.5	2 1	
2 Utility Sinks				
3 Water Closets	AM. STD	LPM 13.23	2	
4 Urinals				
5 Shower Heads	FLOW CONTROL	LPM 7.6	2	
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

**SYSTEMS CORP**

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO. : <u>417 B (DUPLEX)</u> <u>5427 ROSELL COOP</u>		Year Const: <u>1955</u>		
No of Occupants <u>4BDR/2BATH</u>		Function <u>FAMILY HOUSING</u>		
		Operating Hours: <u>24 HRS/365 DAYS/YR</u>		
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	<u>AERATOR</u> <u>KIT SINK</u> <u>NO AERATOR</u>	<u>9.5</u> <u>13.23</u>	<u>2</u> <u>1</u>	
2 Utility Sinks				
3 Water Closets	<u>AM STD</u>	<u>LPF</u> <u>13.2</u>	<u>2</u>	
4 Urinals				
5 Shower Heads	<u>FLOW CONTROL</u>	<u>LPM</u> <u>7.6</u>	<u>2</u>	
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO.:	455 B 5457 TADWIN LOOP	Year Const:	1955	
No of Occupants	3 BDR/2 BATH TADWIN VILLAGE	Function	FAMILY HOUSING	
		Operating Hours:	24 HRS/365 DAYS/YR	
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks KIT SINK	AERATOR AERATOR	9.5 9.5	2 1	
2 Utility Sinks LAUND TUB (BASEMENT)	NO AERATOR	15.4	1	
3 Water Closets	AM STD	10.0 13.2	2	
4 Urinals		8		
5 Shower Heads	FLOW CONTROL	4.0 7.0	2	
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

**SYSTEMS CORP**

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# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO.:	T-468 468A JAPWIN LOOP	Year Const:	1921	
No of Occupants	3 BDR / 1.5 BATH	Function	FAMILY HOUSING	
		Operating Hours:	24 HRS / 365 DAYS / YR JAPWIN VILLAGE	
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR NO AERATOR	9.5 15.2	1 1	
KIT SINK	AERATOR	9.5	1	
2 Utility Sinks				
3 Water Closets	AM STD	CPF 13.23	2	
4 Urinals				
5 Shower Heads	FLOW CONTROL	LPM 9.5	1	
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes FULL BATH UNDER RENOVATION				

SYSTEMS CORP

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE: 6-21-95

FACILITY NO.:	522A (COUPLEX) 10401 FORESTY COOP	Year Const:	1960	
No of Occupants	3 BDR / 1 1/2 BATH	Function	FAMILY HOUSING FAIRFAX VILLAGE	
Operating Hours:	24 HRS / 365 DAYS / YR			
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks KIT SINK	PERATOR AERATOR	9.5 9.5	2 1	
2 Utility Sinks				60F
3 Water Closets	RHEEM - RICHMOND RHEEM - RICHMOND	19 13.2	1 1	
4 Urinals				
5 Shower Heads	FLOW CONTROL	LPM 7.6	1	
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

**SYSTEMS CORP**

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# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO. : <u>810 C (DUPLEX)</u> <u>5895 PETERSON LOOP</u>		Year Const: <u>1950</u>		
No of Occupants <u>2 BDR/1 BATH</u>		Function <u>FAMILY HOUSING</u> Operating Hours: <u>24 HRS/365 DAYS/YR</u> <u>BELVOIR VILLAGE</u>		
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	1	
KIT SINK	AERATOR	9.5	1	
2 Utility Sinks				
3 Water Closets	AM. STD (#4078) TANK	LPF 13.2	1	
4 Urinals				
5 Shower Heads	Flow CONTROL	LPM 13.2	1	
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

**SYSTEMS CORP**

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# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO. : 902 C (QUADRA PLEX) 9616 BARLOW RD		Year Const: 1956		
No of Occupants 3BDR/ 1 BATH		Function FAMILY HOUSING Operating Hours: 24 HRS/ 365 DAYS/YR DOGUE CREEK		
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks KIT SINK	AERATOR AERATOR	9.5 9.5	1 1	
2 Utility Sinks				
3 Water Closets	AM STD	LPM	1	
4 Urinals				
5 Shower Heads	WATER SAVER	LPM 9.5	1	
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

**SYSTEMS CORP**

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# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO.: 924-B (TWN HSE) Year Const: 1956  
 No of Occupants 9623 MALONEY RD Function FAMILY HOUSING  
 2 BDR / 1 BATH Operating Hours: 24 HRS / 365 DAYS / YR  
 DOGUE CREEK

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	1	
KIT SINK	AERATOR	9.5	1	
2 Utility Sinks				
3 Water Closets	AM STD	1PF 15.2	1	
4 Urinals				
5 Shower Heads	FLOW CONT TRAC	9.5	1	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

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 Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO.:	1533 A 9170 MILLER RD	Year Const:	1960	
No of Occupants	3 BDR / 1.5 BATH	Function	FAMILY HOUSING	
		Operating Hours:	24 HRS / 365 DAYS / YR	
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR AERATOR	9.5 9.5	2 1	
2 Utility Sinks				
3 Water Closets	RHEEM - RICHMOND F.T. AM STD (4078) TANK	LPF 13.2 13.2	1 1	
4 Urinals				
5 Shower Heads	FLOW CONTROL	LPM 13.2	1	
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

SYSTEMS CORP

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# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO.: 1641 B  
5424 YORK RD

Year Const:

1960

Function

FAMILY HOUSING

No of Occupants 3 BDR/1.5 BATH

Operating Hours:

RIVER VILLAGE 24 HRS./365 DAYS/YR

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	<u>REATOR</u> <u>NO REATOR</u> <u>KIT SINK</u> <u>REATOR</u>	<u>9.5</u> <u>22.7</u> <u>9.5</u>	<u>1</u> <u>1</u> <u>1</u>	
2 Utility Sinks				
3 Water Closets	<u>PHEEM - RICHMOND F.T.</u> <u>AM STD (4078) TANK</u>	<u>LPM</u> <u>13.2</u> <u>13.2</u>	<u>1</u> <u>1</u>	
4 Urinals				
5 Shower Heads	<u>FLOW CONTROL</u>	<u>LPM</u> <u>13.2</u>	<u>1</u>	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO.:		1702F (6-PLEX)	Year Const:	1958	
No of Occupants		2 BDR / 1.5 BATH	Function	FAMILY HOUSING	
			Operating Hours:	24 HRS / 365 DAYS / YR	
Number	Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1	Lavatory Sinks	AERATOR	9.5	2	
	KIT SINK	AERATOR	9.5	1	
2	Utility Sinks				
3	Water Closets	U. P. C.	LPM		
4	Urinals				
5	Shower Heads	FLOW CONTROL	LPM	1	
6	Dishwashers				
	Sinks				
	Ice Makers				
Additional Notes					

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO. : <u>1703 D (QUADPLEX)</u>		Year Const: <u>1958</u>	Function <u>FAMILY HOUSING</u>	
No of Occupants <u>2 BDR / 1.5 BATH</u>		Operating Hours: <u>24 HRS / 865 DAYS/YR</u>	<u>LEWIS HEIGHTS</u>	
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	<u>AERATOR</u>	<u>9.5</u>	<u>2</u>	
<u>KIT SINK</u>	<u>AERATOR</u>	<u>9.5</u>	<u>1</u>	
2 Utility Sinks				
3 Water Closets	<u>U. P. C.</u>	<u>6PF</u> <u>13.2</u>	<u>2</u>	
4 Urinals				
5 Shower Heads	<u>FLOW CONTROL</u>	<u>LPM</u> <u>7.6</u>	<u>1</u>	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-25-95

FACILITY NO.: 1723 A1 TRI PLEX w/2 UNITS Year Const: 1958  
 8832-1 KNIGHT ST Function FAMILY HOUSING  
 No of Occupants 2 BDR/1 BATH Operating Hours: 24 HRS/365 DAYS/YR  
 LEWIS HEIGHTS

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR KIT SINK AERATOR	9.5 9.5	1 1	
2 Utility Sinks				
3 Water Closets	U.P.C.	LPM 13.2	1	
4 Urinals				
5 Shower Heads	FLOW CONTROL	LPM 6.6	1	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
 Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO. :	2785 A (DUPLEX) 8454 WELL HOUSE	Year Const: 1981		
No of Occupants	4BED, 2.5 BATH	Function FAMILY HOUSING Operating Hours: <del>24 HRS/365 DAYS/YR</del> WOODLAWN VILLAGE		
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks KIT SINK	AERATOR AERATOR -	9.5 9.5	3 1	
2 Utility Sinks				
3 Water Closets	AM. STD	LPM 13.2	3	
4 Urinals				
5 Shower Heads	FLOW CONTROL	LPM 7.6	2	
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

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## Non-Family Housing

Non-Family Housing  
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## NON-FAMILY HOUSING

FAC NO.	CAT CODE	DESIGNATION	SQ FTG	SEC UNT	YR CNST	COMMENTS
20	74048	Off Opn Din/trns Qtrs	69086	40 Pn	34	
65	75030	Outdr Swim Pool		1 Ea	59	
81	72411	Off Qtr Trans	16800	46 Pn	48	
182	74072	Indr Swim Pool	11236	170000 Ga	75	
187	61050	Admin Gen Purp	6880		40	
189	21430	Veh Mnt Sh Gs	9770		40	
190	21430	Veh Mnt Sh Gs	8560		39	
191	73010	Fire Stn/admin	10475		34	
200	74068	Recreation Ctrs	26256		74	
201	61050	Admin Gen Purp	32290		28	
202	17120	Gen Inst Bldg	45174		28	
204	17120	Gen Inst Bldg	25696		28	
211	72111	Enl Bk W/o Din	30328	100 Pn	40	
214	17120	Gen Inst Bldg	39952		41	
215	44270	Gen Storehouse	30000		41	
216	61040	Civ Pers Bldg	24456		32	
219	61027	Fin Admin Bldg	23335		31	
219	74076	Thtr W/ Dress Rm	7935	400 Seat	31	
220	17120	Gen Inst Bldg	78842		52	
221	61050	Admin Gen Purp	4893		52	
222	17160	Tng Aids Center	4893		52	
226	17120	Gen Inst Bldg	48980		57	
235	14183	Bn Hq Bldg	2613		65	
238	74084	Class Vi Store	13740		58	
246	13180	Tele Exch Bldg	11767		51	
247	17120	Gen Inst Bldg	148067		52	
256	73073	Po Main	8823		35	
257	61050	Admin Gen Purp	16756		35	
258	61027	Fin Admin Bldg	6427		35	
259	75032	Outdr Swim Bldg	2156	1 Ea	80	
268	61012	Div Hq Bldg	12960		35	
270	61065	Tech Library	15229		35	
303	61060	Admin Bldg R&d	2112		59	
305	31740	Elctron Eqp Fac	97910		78	
307	31920	Lab Gen Purp	19102		70	
309	31920	Lab Gen Purp	38400		70	
316	61060	Admin Bldg R&d	23970		42	
317	31740	Elctron Eqp Fac	16365		42	
318	31920	Lab Gen Purp	15597		43	
319	74076	Thtr W/dress Rm	8235		42	
320	17120	Gen Inst Bldg	17965		42	
322	31920	Lab Gen Purp	11318		44	
323	31920	Lab Gen Purp	11869		42	
324	31920	Lab Gen Purp	22715		42	

## NON-FAMILY HOUSING

FAC NO.	CAT CODE	DESIGNATION	SQ FTG	SEC UNT	YR CNST	COMMENTS
325	31920	Lab Gen Purp	11975		42	
326	31740	Elctron Eqp Fac	12242		42	
328	21410	Veh Mnt Sh Org	11487	1 Ve	42	
329	21712	Elc/com Cal Fac	11487		42	
330	21910	Fe Facility	11487		42	
331	32110	Prec Mach Shop	68940		42	
333	31310	Sp Mar Eqp Bldg	11487		42	
334	31920	Lab Gen Purp	14571		42	
337	61050	Admin Gen Purp	8287		42	
353	31920	Lab Gen Purp	9000		59	
357	31920	Lab Gen Purp	49958		65	
361	61031	Adp Building	12925		52	
362	31090	Other	17364		52	
363	31020	Metallurgy Lab	30975			
365	61031	Adp Building	4840		53	
367	31920	Lab Gen Purp	49104		57	
371	17120	Gen Inst Bldg	13294		57	
374	61050	Admin Gen Purp	2064		60	
380	61021	Engr Admin Bldg	5856		65	
392	31720	Detect Eqp Fac	33000		79	
399	31920	Lab Gen Purp	38566		72	
435	73017	Post Chapel	3583	35 Seat	41	
470	72411	Off Qtrs Trans	108918	225 Pn	75	
505	72111	Enl Bk W/o Din	22065	60 Pn	56	
506	72111	Enl Bk W/o Din	22065	60 Pn	56	
507	72411	Off Qtrs Trans	19008	42 Pn	69	
610	53040	Vet Clinic	5728			
612	22840	Print Pl	10500		40	
630	44220	Gen Purp Whse/admin	13680		44	
708	44220	Gen Purp Whse	9660		46	
711	44220	Gen Purp Whse	14280		46	
714	61050	Admin Gen Purp	12541		60	
801	72111	Enl Bk W/o Din	22220	129 Pn	77	
802	61050	Admin Gen Purp	3000		77	
806	72120	Enl Barracks Troop	16500	10 Pn	59	
807	72120	Enl Barracks Troop	12246	16 Pn	59	
808	51010	Hospital	260245	380 Bd	57	
815	51020	Clinic	17328	81 Bd	58	
1000	61040	Civ Pers Bldg	4433		40	
1001	61050	Admin Gen Purp	10134		45	
1003	74066	Youth Center	19411			
1018	73017	Post Chapel	13500	60 Pn	56	
1024	74041	Library Main	17680			
1028	74014	Child Supp Ctr/r Ed	30188		49	

## NON-FAMILY HOUSING

FAC NO.	CAT CODE	DESIGNATION	SQ FTG	SEC UNT	YR CNST	COMMENTS
1084	43210	Cold Stor Whse	15755	7512 Cf	41	
1099	54010	Dental Clinic	13272		70	
1108	44270	Gen Storehouse	10000		55	
1116	21885	Mnt Sh Gen Purp	18660		56	
1132	21885	Mnt Sh Gen Purp	16896		41	
1147	74065	Morale Supp off	3517		42	
1148	21885	Mnt Sh Gen Purp	4000		42	
1150	61030	Exch Admin Bldg	3445		34	
1154	73031	Fixed Dry Clg Pl	2896		41	
1161	74071	Red Cross Bldg	3302		55	
1163	74062	Snack Bar	510		77	
1166	44220	Gen Purp Whse	2925		88	
1182	74028	Phys Fit Center	24786		47	
1194	74006	Bank	5050		67	
1195	74023	Credit Union	4254		69	
1199	74011	Bowling Center	20310		65	
1200	74047	Open Dining Nco	25369		65	
1414	17120	Gen Inst Bldg	80720		45	
1415	17120	Gen Inst Bldg	34842		45	
1416	17120	Gen Inst Bldg	24475		53	
1417	17120	Gen Inst Bldg	39216		45	
1419	17120	Gen Inst Bldg	29326		45	
1420	17120	Gen Inst Bldg	37418		53	
1425	61050	Admin Gen Purp	15480		60	
1434	17120	Gen Inst Bldg	31203		63	
1436	17130	Appl Inst Bldg	12320		70	
1439	61050	Admin Gen Purp	1500		58	
1442	61050	Admin Gen Purp	26400		66	
1444	61050	Admin Gen Purp	4960		67	
1445	61050	Admin Gen Purp	51640	19 Pn	69	
1462	74022	Skill Dev Cen	18206		73	
1464	61050	Admin Gen Purp	78138		58	
1465	61050	Admin Gen Purp	75558		56	
1466	61050	Admin Gen Purp	69838		56	
1467	55010	Clinic W/o Beds	3500		39	
1468	61050	Admin Gen Purp	3440		39	
1469	61050	Admin Gen Purp	3475		39	
1471	61050	Admin Gen Purp	2566		57	
1472	73078	Info Stand	984		79	
1496	44270	Gen Storehouse	4080		66	
1801	74006	Bank	2000		70	
1804	73017	Post Chapel	3599	35 Se	41	
1809	61050	Admin Gen Purp	26000		61	
1822	72210	Enl Pers Dine/admin	39195	250 Pn	68	

## NON-FAMILY HOUSING

FAC NO.	CAT CODE	DESIGNATION	SQ FTG	SEC UNT	YR CNST	COMMENTS
1824	73017	Post Chapel	3580	35 Se	41	
1906	21410	Veh Mnt Sh Org	5360		81	
1949	21410	Veh Mnt Sh Org	12360		63	
1950	21410	Veh Mnt Sh Org	4115		63	
1955	55010	Clinic W/o Beds	1920		80	
1982	72321	Det Latrine Bldg	267		79	
2102 a	72111	Enl Bk W/o Din	4830	24 Pn	75	
2102 B	72111	Enl Bk W/o Din	4830	24 Pn	75	
2102 C	72111	Enl Bk W/o Din	4830	24 Pn	75	
2102 D	72111	Enl Bk W/o Din	4830	24 Pn	75	
2102 E	72111	Enl Bk W/o Din	4830	16 Pn	75	
2102 F	72111	Enl Bk W/o Din	4830	24 Pn	75	
2105	72330	Adm & Sup Bldg	14290		75	
2115	55010	Clinic W/o Beds	4085		75	
2116	74028	Phys Fit Center	25920		75	
2118	14185	Co Hq Bldg	4944		75	
2119	73010	Fire Station	8400			
2302	74021	Commissary	117000		82	
2310	13180	Tel Exch Bldg	41652		86	
2393	17121	Indr Fire Rg	9234		71	
2462	61050	Def Log Agency	804867	500 Pn		
2470	17140	Army Res Center	48600		75	
2901	74030	Golf Club House				
2920	74030	Golf Club House	11735			
2990	44285	Salv & Sur Prop	15836		81	
3121	21111	Mnt Hangar Avim	21796		81	
3123	17180	Ng Armory	27000	100 Pn		
3126	21120	Ac Comp Mnt Shp	17699		60	
3128	14110	Af Ops Bldg	2590		84	
3136	14110	Af Ops Bldg	11760		66	
3137	14110	Af Ops Bldg	1103		55	
3138	82121	Hipr Bl+3.5m Ol		22.3 Mb	55	
3141	21120	Ac Comp Mnt Shp	2600		55	
3145	21111	Mnt Hangar Avim	24502		70	
3146	17112	Flight Sim Bldg	8040		79	
3151	21111	Mnt Hangar Avim	35091		61	
3165	61050	Admin Gen Purp	15246		76	
3230	13310	Flt Con Tow Hd	2800		58	
3231	21111	Mnt Hangar Avim	20588		58	
3232	21111	Mnt Hangar Avim	14760		60	
3234	14110	Af Ops Bldg	2000		58	
3235	14112	Avn Ops Bldg	4500		58	
3237	14111	Af Fire Rsq Sta	5226		58	

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 20 (LEVEL ONE)

Year Const:

Function

CLUB

No of Occupants

8

Operating Hours:

24 HOURS

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	14	
2 Utility Sinks				
BAR SINK	AERATOR	9.5	3	
3 Water Closets	FLUSH VALVE	17.0	11	
4 Urinals	FLUSH VALVE	11.4	3	
5 Shower Heads	FLOW CONTROL	9.5	5	
6 Dishwashers	GLASS WASHER		1	
DISHWASHER Sinks	LARGE		1	
Ice Makers				

### Additional Notes

OPERATES 11:00AM - 11:30PM.

POOL PUMP 1.5 HP.

1 OF 3

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 20 (LEVEL 2)

Year Const:

Function

CLUB

No of Occupants 21

Operating Hours:

7:30AM - 10:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	8.5	7	
2 Utility Sinks				
BAR SINK	NO AERATOR	16.1	1	
3 Water Closets	FLUSH VALVE	17.0	7	
4 Urinals	FLUSH VALVE	11.4	3	
5 Shower Heads				
6 Dishwashers				
PRE RINSE Sinks	NO AERATOR	5	1HW.25	
Ice Makers			2	

### Additional Notes

NEED NEW WATER FILTER.

2023

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 20 (LEVEL 3)

Year Const:

Function OFFICERS CLUB

No of Occupants 8

Operating Hours: 11:30AM - 8:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	5	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17.0	4	
4 Urinals	FLUSH VALVE	11.4	1	
5 Shower Heads				
6 Dishwashers			1	
PRE-RINSE Sinks	2 COMP NO AERATOR	16.1	4	
Ice Makers			1	

## Additional Notes

2 MEALS DAY. 150 PEOPLE EACH MEAL.

11:30AM-8:00PM - DISHWASHER IS IN OPERATION.

LEVEL 3

3 OF 3

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 20

Year Const:

No of Occupants 12 RMS.

Function OFC. TRANS QTRS

Operating Hours: 24 HOURS

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	13	
KIT. SINK	AERATOR	9.5	12	
2 Utility Sinks				
3 Water Closets	KOHLER F.T. FLUSH VALVE SLOAN.	17.0 17.0	12 1	
4 Urinals				
5 Shower Heads	FLOW CONTROL	9.5	12	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-24-95

FACILITY NO.: 65\*

Year Const:

Function POOL

No of Occupants 342\*

Operating Hours: 12 - 8PM. WK DAY, 10 - 8PM  
WEEKEND

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	DUAL HANDLE NOAERATOR	16.1	5	
	NOAERATOR	16.1	1	
	DUAL CONTROL AERATOR	9.5	4	
2				
Utility Sinks	DUAL CONTROL NO AERATOR	45.4	1	
3				
Water Closets	FLUSH VALVE	17.0	11	
4				
Urinals	FLUSH VALVE	5.7	5	
5				
Shower Heads	FLOW CONTROL	9.5	11	
	FLUSH VALVG SHOWER FOR POOL	5.7	4	
6				
Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

\*SIMILAR TO BLDGS: 66 ~~67, 68, 69, 70, 71, 75~~ 69, 71, 75

\* POOL CAPACITY.

**SYSTEMS CORP**

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 81

Year Const:

Function VISITING OFFICE QTRS.

No of Occupants 22 TLT. RMS.

Operating Hours: 24 HOURS

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	46	
2 Utility Sinks	AERATOR	32.7	2	
3 Water Closets	TANK TYPE	17.0	22	
4 Urinals				
5 Shower Heads	FLOW CONTROL	9.5	22	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

BLDG 80 IS IDENTICAL

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-24-95

FACILITY NO.: 182

Year Const:

Function INDOOR POOL

No of Occupants 1735

Operating Hours: 9:00AM - 7:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR	9.5	5	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17.0	8	
4 Urinals	FLUSH VALVE	5.7	4	
5 Shower Heads	FLOW CONTROL	9.5	8	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

POOL CAPACITY

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 187

Year Const:

Function MAINT. SHOP

No of Occupants 6

Operating Hours: 7:30 A.M. - 4:30 P.M.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	NO AERATOR	11.4	2	
KIT. SINK	AERATOR	9.5	1	
LAVATORY	AERATOR	9.5	2	
2				
Utility Sinks				
3				
Water Closets	AMERICAN STANDARD FLUSH VALVE	17.0	3	
4				
Urinals	STANDARD FLUSH VALVE	5.7	3	
5				
Shower Heads	FLOW CONTROL	9.5	1	
6				
Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 189

Year Const:

Function DRIVE TESTING

No of Occupants 23

Operating Hours: 5:30 AM - 8:00 PM  
MON-FRI

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	4	
KIT. SINK	AERATOR	9.5	1	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17.0	3	
4 Urinals	FLUSH VALVE	11.4	2	
5 Shower Heads	FLOW CONTROL	9.5	3	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.:	190	Year Const:		
No of Occupants	6	Function	GARAGE SPACE	
		Operating Hours:	6	
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL VALVE, NO AERATOR	11.4	3	
2 Utility Sinks				
3 Water Closets	AMERICAN STD. FLUSH VALVE	17.0	2	
4 Urinals	STD. FLUSH VALVE	5.7	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-24-95

FACILITY NO.: 191

Year Const:

Function FIRE STATION

No of Occupants 5

Operating Hours: 24 HRS.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AGRATO 12	9.5	5	
2 Utility Sinks	NO AERATOR	45.4	2	
3 Water Closets	FLUSH VALVE TANK TYPE	17.0 17.0	4 1	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads	NO FLOW CONTROL FLOW CONTROL	13.2 9.5	2 1	
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

4 TRUCKS WASHED EACH WEEK 30 MIN. DURATION.

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-25-95

FACILITY NO.: 200

Year Const:

Function REC. CENTER

No of Occupants 11

Operating Hours: 8:00AM - 10:00PM (M-THUR)

8:00 AM - 11:00PM (FRI-SA)

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR NO AERATOR	9.5 11.4	4 4	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE	12.0	7	
4 Urinals	FLUSH VALVE	5.7	4	
5 Shower Heads				
6 Dishwashers				
WAND Sinks	FLOW CONTROL KIT. SINK DUAL CONT. AERATOR	9.5 11.4	1 3	
Ice Makers	MAN. TO WDC SERIES 6000		1	

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 201 (LOWER)

Year Const:

Function

ADMIN.

No of Occupants 41

Operating Hours: 6:00 AM. - 6:00 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL FAUCETS, NO AERATOR	16.1	3	
2 Utility Sinks				
3 Water Closets	TANK TOP	17.0	3	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

2 oF 3

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 201 (MAIN)

Year Const:

Function ADMIN.

No of Occupants 23

Operating Hours: 6:00 AM - 6:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	2	-
2 Utility Sinks	NO AERATOR	45.4	1	-
3 Water Closets	FLUSH VALVE	12.0	4	-
4 Urinals	FLUSH VALVE	11.4	1	-
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

1 OF 3

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 201 (UPPER)

Year Const:

Function ADMIN.

No of Occupants 49

Operating Hours: 6:00 AM - 6:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	4	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE	17.0	4	
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

3 of 3

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 202 (LOWER)

Year Const:

Function G & A

No of Occupants 18

Operating Hours: 6:00 AM - 4:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	AERATOR	9.5	1	
	DUAL CONTROL AERATOR	9.5	4	
2				
Utility Sinks				
3				
Water Closets	FLUSH VALVE	17.0	4	
4				
Urinals	FLUSH VALVE	5.7	2	
5				
Shower Heads				
6				
Dishwashers				
Sinks				
Ice Makers				

Additional Notes

1 of 3

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 202 (MAIN)

Year Const:

Function G & A

No of Occupants 31

Operating Hours: 6:30AM - 5:30PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL	9.5	5	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17.0	4	
4 Urinals	FLUSH VALVE	5.7	4	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

20F3

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 202 (UPPER)

Year Const:

Function

575 A

No of Occupants 60

Operating Hours: 7:30AM - 4:30PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	INDUAL CONTROL AERATOR	8.5	5	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17.0	5	
4 Urinals	FLUSH VALVE	5.7	5	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

30F 3

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 204 LOWER \*

Year Const:

Function GEN. ADMIN.

No of Occupants 12 FIRST SHIFT  
3 SECOND

Operating Hours: 6:30AM - 11:05PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	KITCHEN SINK AERATOR DUAL CONTROL AERATOR	9.5 9.5	1 1	
2 Utility Sinks				
3 Water Closets	TANK TYPE	17.0	1	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

1 OP 3

\* BLDG 204 TYPICAL FOR 203(EMPTY), 205, 206, 207, 208, & 209

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 204 (MAIN)

Year Const:

Function GA / CLASS ROOMS.

No of Occupants 8 STAFF, 60 STUDENTS Operating Hours: 8:00AM - 5:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATO 12	9.5	4	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17.0	5	
4 Urinals				
5 Shower Heads	FLOW CONTROL	9.5	2	
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

\* BASED ON DAILY ATTENDANCE

20F3

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 5-23-95

FACILITY NO.: 204 (UPPER)

Year Const:

Function

GRA/CLASS

No of Occupants 68

Operating Hours: 8:00 AM - 5:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AGERATOR	9.5	8	
2 Utility Sinks	NO AERATOR	49.4	2	
3 Water Closets	FLUSH VALVE	17.0	4	
4 Urinals	FLUSH VALVE	5.7	5	
5 Shower Heads	FLOW CONTROL	9.5	5	
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

BASED ON DAILY ATTENDANCE

30P3

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-85

FACILITY NO.: 211<sup>4</sup> LOWER

Year Const:

Function

GEN. ADMIN.

No of Occupants 4

Operating Hours: 6:30 AM - 5:30 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	9	
2 Utility Sinks	DUAL COMP. NO AERATOR	48.4	5	
3 Water Closets	FLUSH VALVE	17.0	6	
4 Urinals	FLUSH VALVE	5.7	6	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

4 SIMILAR TO 210, ~~211~~ & 212

1 OF 3

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 211 MAIN

Year Const: \_\_\_\_\_

Function

No of Occupants 17

Operating Hours: 6:30 - 5:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR DUAL FAUCET, NO AERATOR AERATOR	5.7 16.1 8.5	2 1 7	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE	17.0	10	
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads	FLOW CONTROL NO FLOW CONTROL	9.5 12.1	6 6	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

20 of 3

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 211 UPPER

Year Const: \_\_\_\_\_

Function

No of Occupants 30

Operating Hours: 6:30AM - 5:30PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	DUAL FAUCET NO AERATOR DUAL CONTROL NO AERATOR	16.1 16.1	3 9	
2				
Utility Sinks	NO AERATOR	45.4	1	
3				
Water Closets	FLUSH VALVE	17.0	9	
4				
Urinals	FLUSH VALVE	5.7	5	
5				
Shower Heads	FLOW CONTROL	11.4	8	
6				
Dishwashers				
Sinks				
Ice Makers				

Additional Notes

30F3

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-25-95

FACILITY NO.: 214

Year Const:

Function

GEN. INSTR. BLDG.

No of Occupants 60 STAFF / 96 STUDENTS \* Operating Hours: 6:30AM - 12:00AM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1	LAVATORY SINKS DUAL CONTROL. NO AERATOR	11.4	1	
	DARK ROOM AERATOR	9.5	12	
	LAVATORY AERATOR	9.5	10	
2	UTILITY SINKS NO AERATOR	45.4	2	
3	WATER CLOSETS FLUSH VALVE	17.0	10	
4	URINALS FLUSH VALVE	5.7	8	
5	SHOWER HEADS FLOW CONTROL	7.0	2	
6	DISHWASHERS			
	SINKS TROUGH. MANUAL NO AERATOR (NEVER USES)	11.4	1	
	ICE MAKERS			

### Additional Notes

\* APPROXIMATE ONE DAY.

SEWER LINE BACKUP.

SEVERAL PIPING LEAKS.

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 215

Year Const:

Function

WHOLE SALE

No of Occupants 12

Operating Hours:

7:00AM. - 5:00PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	AERATOR	9.5	3	
2 LAVATORYS WHOSE HANDLES DO NOT WORK			2	
2 COMP.	AERATOR	9.5	2	
DARK ROOM	AERATOR	9.5	1	
2				
Utility Sinks	NO AERATOR	45.4	2	
3				
Water Closets	FLUSH VALVE	17.0	6	
4				
Urinals	FLUSH VALVE	11.4	4	
5				
Shower Heads				
6				
Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 216

Year Const:

Function FLAGLER HALL

No of Occupants 120

Operating Hours: 9:00AM - 4:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	11	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17.0	7	
4 Urinals	FLUSH VALVE	5.7	4	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 219 (LOWER)

Year Const:

Function

ADMIN.

No of Occupants

8

Operating Hours:

7:30 AM - 4:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL HANDLE AERATOR DUAL FAUCET NO AERATOR	9.5 16.1	1 2	
2 Utility Sinks				
3 Water Closets	TANK TYPE	17.0	4	
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

1 OF 3

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 219 13

Year Const:

Function ADMIN.

No of Occupants

Operating Hours:

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR DUAL CONTROL AERATOR	9.5 9.5	3 2	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE TANK TOP	17.0 17.0	4 1	
4 Urinals	FLUSH VALVE	5.7	2	.50 LPM
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 219 (MAIN)

Year Const:

Function

No of Occupants 50

Operating Hours: 7:30AM - 4:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	7	
2 Utility Sinks				
3 Water Closets	TANK TYPE	1	9	
4 Urinals	FLUSH VALVE	11.4	4	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

2 OF 3

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 219 (UPPER)

Year Const:

Function

No of Occupants 60

Operating Hours: 7:30 AM - 6:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	0.5	3	
2 Utility Sinks				
3 Water Closets	TANK TYPE FLUSH VALVE	17.0 12.0	3 1	
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

3 of 3

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 10-25-95

FACILITY NO.: 220

Year Const:

Function

WHEELER HALL

No of Occupants 80 STAFF/100 STUDENTS & Operating Hours: 6:30 AM - 9:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	25	
2 Utility Sinks	NO AERATOR	45.4	3	
3 Water Closets	FLUSH VALVE	17.0	25	
4 Urinals	FLUSH VALVE	5.7	25	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

BB

APPOXIMATE ATTENDENCE

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-25-95

FACILITY NO.: 221

Year Const:

Function

VISUAL INFO.

No of Occupants 5 STAFF / 30 NON STAFF Operating Hours: 7:45 AM - 5:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	5	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE	17.0	4	
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

BS ON DAY AVERAGE

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-25-95

FACILITY NO.: 222

Year Const:

Function

VISUAL INFO

No of Occupants 35 STAFF / 50 NON STAFF & Operating Hours: 7:45 AM - 5:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	5	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE	17.0	4	
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

ON DAY AVERAGE

BLDG. 222 SIMILAR TO BLDG. 223.

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

## FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-25-95

FACILITY NO.: 226

Year Const:

Function GEN. INSTR. BLDG.

No of Occupants 50

Operating Hours: 7:30 AM - 5:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR	9.5	15	
2 Utility Sinks	✓			
3 Water Closets	FLUSH VALVE	17.0	13	
4 Urinals	FLUSH VALVE	5.7	13	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

## Additional Notes

✓ JAN. CLOSET INACCESSIBLE.

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-25-95

FACILITY NO.: 235

Year Const:

Function

HEAD QUARTER BLDG

No of Occupants 9

Operating Hours: 8:30 - 4:30 PM (MON, WED, FRI)

7:30 - 4:30 PM (TUES, THUR)

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	3	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE	17.0	3	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 238

Year Const:

Function PET STORE

No of Occupants 14

Operating Hours: 9:00 AM - 7:00 PM (M-F)  
12:00 - 4:00 PM (SAT)

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL FAUCET NO AERATOR DUAL FAUCET CONTROL NO AER	16.1 9.5	2 2	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17.0	6	
4 Urinals	FLUSH VALVE	11.4	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers			1	
Additional Notes	<u>EEAP</u> WASH 12 DOG/DAY IN REGULAR BATH TUB.			

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-25-95

FACILITY NO.: 246

Year Const:

Function TELEPHONE EXCHANGE

No of Occupants 16

Operating Hours: 7:00AM - 4:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL NO AERATOR	11.4	5	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE	17.0	5	
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-25-95

FACILITY NO.: 247

Year Const:

Function HUMPHREYS HALL

No of Occupants 150 STAFF / 360 STUDENTS \* Operating Hours: 7:30 AM - 4:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	35	
2 Utility Sinks	NO AERATOR	45.4	9	
3 Water Closets	FLUSH VALVE	17.0	30	
4 Urinals	FLUSH VALVE	5.7	16	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

\* APPROXIMATE ATTENDANCE

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 256

Year Const:

Function

POST OFFICE

No of Occupants 17

Operating Hours: 9:00 AM - 5:00 PM (MON-FRI)

9:00 AM - 1:00 PM (SAT)

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROLS NO AERATOR	15.2	2	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17.0	5	
4 Urinals	5' TROUGH. MANUAL	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks	2' TROUGH. MANUAL NO AERATOR (NEVER USE)	11.4	1	
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-25-95

FACILITY NO.: 257

Year Const:

Function

ADMIN.

No of Occupants 40

Operating Hours: 7:30AM - 4:30PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	5	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17.0	5	
4 Urinals	FLUSH VALVE	11.5	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 258

Year Const:

Function

ADMIN.

No of Occupants 17

Operating Hours: 7:00 AM. - 3:00 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	AERATOR	9.5	2	
2				
Utility Sinks				
3				
Water Closets	TANK TYPE	17.0	1	
	TANK TYPE	17.0	3	
4				
Urinals	FLUSH VALVE	5.7	1	
5				
Shower Heads				
6				
Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-25-95

FACILITY NO.: 259

Year Const:

Function BATH HOUSE W/ WATER TIMER

No of Occupants 10

Operating Hours: 24 HOURS

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL NO AERATOR	15.2	4	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17.0	12	
4 Urinals	FLUSH VALVE	7.0	7	
5 Shower Heads	FLOW CONTROL 20 SEC. TIMER	15.0	7	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-25-95

FACILITY NO.: 268

Year Const:

Function

WILLIAMS HALL

No of Occupants 31

Operating Hours: 8:00AM - 4:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL NO AERATOR	11.4	6	
2 Utility Sinks				
3 Water Closets	STANDARD FLUSH VALVE	17.0	7	
4 Urinals	AMERICAN STD. FLUSH VALVE	5.7	7	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-25-95

FACILITY NO.: 270

Year Const:

Function

THAYER HALL

No of Occupants 9

Operating Hours: 8:00 AM - 5:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL NO AERATOR	11.4	2	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE	17.0	2	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks	KIT. SINK. AERATOR	9.5	1	
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-28-95

FACILITY NO.: 303

Year Const:

Function

ADMIN.

No of Occupants 15

Operating Hours: 6:00 AM - 6:00 PM

7 DAY

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1		9.5	3	(11.9 LPM)
Lavatory Sinks	AERATOR			
2				
Utility Sinks				
3				
Water Closets	FLUSH VALVE	17.0	3	
4				
Urinals	FLUSH VALVE	5.7	1	
5				
Shower Heads				
6				
Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-28-95

FACILITY NO.:	305	Year Const:		
No of Occupants	302	Function	ADMIN.	
Operating Hours:	7:30 AM. - 4:30 PM			
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL FAUCET	19	18	
LAVATORY SINK	DUAL CONTROL	9.5	4	
2 Utility Sinks	NO AERATOR	45.4	4	
3 Water Closets	FLUSH VALVE	17.0	20	
4 Urinals	FLUSH VALVE	5.7	13	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.:

307

Year Const:

Function

LAB

No of Occupants

45

Operating Hours:

8:30 AM - 5 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks LAB SINK	DUAL CONTROL WITH AERATOR	9.5	6 4	
2 Utility Sinks KITCHEN SINK		9.5	2	
3 Water Closets	FLUSH VALVE	17.0	60	
4 Urinals		5.7	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

11.4 LPM (COLD WATER) FLUME HOOD

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO. :	309	Year Const:		
No of Occupants	64	Function		
		Operating Hours:		
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL	9.5	8	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17.0	8	
4 Urinals	FLUSH VALVE	5.7	4	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-28-95

FACILITY NO.: 316

Year Const:

Function

AD MIN

No of Occupants 65

Operating Hours: 6:00 AM - 6:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL COUNT	9.5	15	
KIT. SINK	SINGLE COUNT	9.5	3	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17.0	15	
4 Urinals	FLUSH VALVE	5.7	4	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

SIMILAR FOR BUILDINGS:

314, 315, 312

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-29-95

FACILITY NO.: 317

Year Const:

Function

CAB

No of Occupants 15

Operating Hours:

6:30AM - 5PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL SINGLE CONTROL	9.5 9.5	3 1	
2 Utility Sinks		45.4	1	
3 Water Closets	FLUSH VALVE	17.0	4	
4 Urinals		5.7	2	
5 Shower Heads	NO FLOW CONTROL	6	1	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

APPROX. 75 GPM 56.9 LPM 8 HOUR/DAY (LASER COOLING)

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE: 6-27-95

FACILITY NO.: 318

Year Const:

Function ENVIRONMENTAL CONTROL

No of Occupants 40

Operating Hours: 7:30 AM. - 5:00 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL FAUCET. NO AERATOR	45.4	9	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17.0	6	
4 Urinals	FLUSH VALVE	16.1	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO.: 319

Year Const: \_\_\_\_\_

Function

No of Occupants 7

Operating Hours: 6:30 AM. - 5:30 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	4	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17.0	3	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads	FLOW CONTROL	9.5	1	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-27-95

FACILITY NO.: 320

Year Const:

Function TRAINING OFFICE

No of Occupants 9\*

Operating Hours: 7:00 AM - 4:00 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL FAUCET. NO AERATOR	16.1	6	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	12.0	5	
4 Urinals	FLUSH VALVE	16.1	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

\* 20-30 PEOPLE IN CLASSES PER DAY.

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 322

Year Const:

Function PA & ED TEST POLICY DIV.

No of Occupants 15

Operating Hours: 8AM - 5PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	<u>DUAL CONTROL</u>	<u>9.5</u>	<u>1</u>	
2 Utility Sinks		<u>45.4</u>	<u>1</u>	
3 Water Closets	<u>FLUSH VALVE</u>	<u>17.0</u>	<u>2</u>	
4 Urinals		<u>5.7</u>	<u>1</u>	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

ENVIR. TEST CHAMBER: SINGLE PASS COOLING GOES TO WASTE, 2" CONN. APPROX. 113 LPM  
VACUUM PUMP: SINGLE PASS COOLING GOES TO DRAIN 1/4" CONN. APPROX 97 LPM

ENGINE HEADS COOLED WITH COOLING TOWER  
FIRE LINE AND MAKE-UP WATER HAVE BACK FLOW PREVENTION  
DOMESTIC WATER HAS NO BACKFLOW PREVENTION

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 323

Year Const:

Function POWER GEN. DIV.

No of Occupants 11

Operating Hours: 8AM - 5PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	<u>DUAL CONTROL</u>	<u>9.5</u>	<u>4</u>	
2 Utility Sinks	<u>LAUNDRY TUB</u>	<u>45.4</u>	<u>1</u>	
3 Water Closets		<u>17.0</u>	<u>4</u>	
4 Urinals		<u>5.7</u>	<u>2</u>	
5 Shower Heads	<u>FLOW CONTROL</u>	<u>9.5</u>	<u>3</u>	
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 324

Year Const:

Function TEST & EVALUATION DIV.

No of Occupants 15

Operating Hours: 8AM-5PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1	Lavatory Sinks <u>DUAL CONTROL NO AERATOR</u>	17	2	
2	Utility Sinks			
3	Water Closets <u>FLUSH VALVE</u>	17.0	5	
4	Urinals <u>FLUSH VALVE</u>	5.7	2	
5	Shower Heads <u>NO FLOW CONTROL</u>	13.3	3	
6	Dishwashers			
	Sinks			
	Ice Makers			

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 325

Year Const:

Function WATER TECH. R&D TEAM

No of Occupants 15

Operating Hours: 8AM - 5PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	<u>DUAL FAUCET</u>	<u>22.7</u>	<u>4</u>	
2 Utility Sinks				
3 Water Closets	<u>TANK</u> <u>FLUSH VALVE</u>	<u>19.0</u> <u>17</u>	<u>1</u> <u>2</u>	
4 Urinals			<u>11.4</u>	<u>2</u>
5 Shower Heads	<u>NO FLOW CONTROL</u>	<u>15.2</u>	<u>1</u>	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-29-95

FACILITY NO.: 326

Year Const:

Function

WORK SHOP

No of Occupants 16

Operating Hours:

7:30 AM - 4 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL	9.5	5	
2 Utility Sinks		45.4	1	
3 Water Closets	FLUSH	17	4	
4 Urinals		50.7	2	
5 Shower Heads		90.5	2	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-28-95

FACILITY NO.: 328

Year Const:

Function

VEH. MAINT.

No of Occupants 4

Operating Hours:

6:30 AM. - 4:00 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	SINGLE AERATOR	9.5	5	
2 Utility Sinks	NO AERATOR	30.4	1	
3 Water Closets	FLUSH VALVE	17	3	
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads	NO FLOW CONTROL	22.7	1	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-28-95

FACILITY NO.: 329

Year Const:

Function ELECT. CALIB SHOP/FIT. CTR.

No of Occupants 3

Operating Hours: 7:00 AM - 5:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL	9.5	2	
	DUAL FAUCET WITH AERATOR.	9.5	3	
	DUAL FAUCET	1.8	2	(1) .9 LPM
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	1.7	3	
4 Urinals	FLUSH VALVE	5.7	32	
5 Shower Heads	FLOW CONTROL	9.5	1	
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

HALF OF BUILDING UNDER RENOVATION.

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-28-95

FACILITY NO.: 330

Year Const:

Function: F.E. WOOD SHOP

No of Occupants 7

Operating Hours: 6:00 AM - 5:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL FAUCET	19	5	
KIT. SINK	DUAL CONTROL AERATOR	9.5	1	
2 Utility Sinks	NO AERATOR	19	1	
3 Water Closets	FLUSH VALVE	17	3	
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads	NO FLOW CONTROL	19	1	
6 Dishwashers				
Sinks				
Ice Makers			2	

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-28-95

FACILITY NO.: 331

Year Const:

Function

ADMIN / FAB. SHOP

No of Occupants ADMIN-9 / FAB.SHOP-11 Operating Hours: 7:00AM. - 4:00PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	DUAL CONTROL, NO AERATOR	16.1	1	
	DUAL FAUCET	19	2	
	HAND WASH THROUH			
	DUAL CONTROL	32.7	4	3 FAUCETS W/25
2				
Utility Sinks	NO AERATOR	30.4	1	
3				
Water Closets	FLUSH VALVE	17	8	
4				
Urinals	FLUSH VALVE	5.7	9	
5				
Shower Heads	FLOW CONTROL	9.5	4	
6				
Dishwashers				
Sinks				
Ice Makers				

Additional Notes

ALL USE FACILITIES

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 333

Year Const:

Function MECH. EQUIP. DIV.

No of Occupants 20

Operating Hours: 7:30 AM. - 4:15 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR.	9.5	7	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	5	
4 Urinals	FLUSH VALVE	16.1	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-29-95

FACILITY NO. :	334	Year Const:		
No of Occupants	25	Function	ADMIN.	
		Operating Hours:	8:30 AM - 5:PM	
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL FAUCET DUAL CONTROL	17 9.5	3 4	
2 Utility Sinks		45.4	1	
3 Water Closets	FLUSH VALVE	17	8	
4 Urinals		5.7	4	
5 Shower Heads	FLOW CONTROL	9.5	2	
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-28-95

FACILITY NO.: 337

Year Const:

Function

ADMIN.

No of Occupants 18

Operating Hours: 8:00 AM. - 5:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL	9.5	3	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	3	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 353

Year Const:

Function ELECTRONICS LAB

No of Occupants NO ONE PRESENT

Operating Hours:

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks				
2 Utility Sinks	<u>LAUNDRY TUB</u>	<u>45.4</u>	<u>1</u>	
3 Water Closets		<u>17</u>	<u>1</u>	
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 357

Year Const:

Function F.R. TECH BRANCH & ARL

No of Occupants 70

Operating Hours: 8AM - 5PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	<u>DUAL CONTROL</u>	<u>9.5</u>	<u>10</u>	
2 Utility Sinks				
3 Water Closets	<u>FLUSH VALVE</u>	<u>17</u>	<u>8</u>	
4 Urinals		<u>11.4</u>	<u>6</u>	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

5.7 LPM LASER COOLING 4 HOUR/DAY TYPICAL FOR 6-8 LABS

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-28-95

FACILITY NO.: 364

Year Const:

Function ADMIN

No of Occupants 4/27

Operating Hours: 02:23 - 19:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL	9.5	5	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	4	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.:	362	Year Const:		
No of Occupants	15	Function	FUELS & LUBRICANTS DIV	
		Operating Hours:	8AM - 5PM	
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	DUAL FAUCET NO AERATOR	17	2	
	DUAL CONTROL NO AERATOR	17	3	
LAB SINK	WITH AERATOR - (NO VACUUM BKR.)	9.5	7	
2				
Utility Sinks				
3				
Water Closets	FLUSH VALVE	17	5	
4				
Urinals		5.7	2	
5				
Shower Heads				
6				
Dishwashers				
Sinks				
Ice Makers				
Additional Notes 11.4 LPM COLD WATER NOZZLES ON FUME HOOD (THREE HOODS) 11.4				

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 10-29-95

FACILITY NO.: 363

Year Const:

Function

ADMIN. / LAB

No of Occupants 46

Operating Hours:

8 AM - 5 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	DUAL FAUCET	17	9	
	DUAL CONTROL LAB SINK	19	31	
	ASPERATOR @ LAB HOOD	3.8	10	
2				
Utility Sinks		45.4	5	
3				
Water Closets	FLUSH VALVE	17	8	
4				
Urinals		5.7	4	
5				
Shower Heads	FLOW CONTROL	9.5	12	1
6				
Dishwashers				
Sinks				
Ice Makers				

Additional Notes EYEWASH HAS SMALL LEAK - INSIGNIFICANT AMOUNT  
 FIRE MAIN HAS SMALL LEAK - INSIGNIFICANT AMOUNT  
 11.4 LPM EQUIP. COOLING 1 HOUR/DAY  
 30.3 LPM EQUIP. COOLING 3 HOUR/DAY } 12 mo./yr.  
 56.9 LPM EQUIP. COOLING 1 HOUR/DAY }  
 7.6 LPM EQUIP. COOLING 24 HOUR/DAY 6 mo./yr.  
 2.8 LPM " " 24 HOUR/DAY

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-28-95

FACILITY NO.: 365

Year Const:

Function

ADMIN.

No of Occupants 13

Operating Hours: 7:30 AM - 4:15 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL	9.5	4	
2 Utility Sinks	NO AERATOR	30.4	1	
3 Water Closets	FLUSH VALVE	17	4	
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads	FLOW CONTROL	9.5	2	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-29-95

FACILITY NO.: 367

Year Const:

Function

LAB

No of Occupants

Operating Hours:

5:AM- 7PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	DUAL CONTROL	9.5	14	
	KITCHEN TYPE DUAL CONTROL	9.5	2	
	" " " " NO AERATOR	19	1	
2				
Utility Sinks		30.3	4	
		45.4	1	
3				
Water Closets	FLUSH VALVE	17	12	
	TANK	17	1	
4				
Urinals		5.7	4	
5				
Shower Heads	FLOW CONTROL	9.5	2	
6				
Dishwashers				
Sinks				
Ice Makers			1	

Additional Notes

UNDER RENOVATIONS

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-28-95

FACILITY NO.: 371

Year Const:

Function ADMIN.

No of Occupants 25

Operating Hours: 7:30 AM - 4:30 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL	9.5	4	
KIT. SINK	NO AERATOR	16.1	1	
2 Utility Sinks	NO AERATOR	30.4	1	SMALL LEAK
3 Water Closets	FLUSH VALVE	17	4	
4 Urinals	FLUSH VALVE	5.7	3	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-28-95

FACILITY NO.:	374	Year Const:		
No of Occupants	9	Function	ADMIN.	
		Operating Hours:	7:30 AM - 5:30 PM	
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL WITH AERATOR	16.1	2	
KIT. SINK.	DUAL CONTROL	9.5	1	
2 Utility Sinks				
3 Water Closets	TANK TOP	.17	2	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-28-95

FACILITY NO.: 380

Year Const:

Function

ADMIN.

No of Occupants 20

Operating Hours: 8:00 AM - 4:30 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL	9.5	3	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE	17	3	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 392

Year Const:

Function TACOM/CA MO

No of Occupants 28

Operating Hours: 8:00 AM. - 5:00 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL WITH AERATOR	9.5	6	
2 Utility Sinks	NO AERATOR	16.1	2	
3 Water Closets	FLUSH VALVE	17	4	
4 Urinals	FLUSH VALVE	5.7	3	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

1 of 3 1<sup>ST</sup> FLOOR

FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE: 6-29-95

FACILITY NO.: 399

Year Const:

Function

No of Occupants 40

Operating Hours:

ADMIN.

6AM-5PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL	9.5	10	
2 Utility Sinks		45.4	1	
3 Water Closets	FLUSH VALVE	.17	5	
4 Urinals		5.7	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

2 of 3 2<sup>ND</sup> FLOOR

FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY					
FIELD SURVEY SHEET			DATE: 6-29-95		
FACILITY NO. : 399		Year Const: ADMIN. Function Operating Hours: 8AM - 5PM			
No of Occupants 45	Existing Fixture System Description		LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DIAL CONTROL		9.5	3	
2 Utility Sinks			45.4	1	
3 Water Closets	FLUSH VALVE		.17	3	
4 Urinals			5.7	1	
5 Shower Heads					
6 Dishwashers					
Sinks					
Ice Makers					
Additional Notes					

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

3 of 3

## FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE: 6-29-95

FACILITY NO.: 399

Year Const:

Function

ADMIN

No of Occupants APPROX. 45

Operating Hours:

8am-5pm

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DAUL CONTROL	0 9.5	3	
2 Utility Sinks		45.4	1	
3 Water Closets	FLUSH VALVE	17	3	
4 Urinals		5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: T-435

Year Const:

Function FAIR FAX CHAPEL

No of Occupants SUNDAY WORSHIP

Operating Hours: SUNDAY HOLIDAY

8:00 AM - 12:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	<u>NO AERATOR</u>	<u>11.4</u>	<u>2</u>	
2 Utility Sinks				
3 Water Closets	<u>ROYAL SLOAN, FLUSH VALVE</u>	<u>17</u>	<u>1</u>	
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-85

FACILITY NO. : 470		Year Const:			
No of Occupants 150/207 UNITS		Function	TRANSIENT BILLING		
Operating Hours: 24 HOUR					
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM	
1 Lavatory Sinks	AERATOR	9.5	1 <sup>a</sup>		
2 Utility Sinks					
3 Water Closets	FLUSH VALVE	17	1 <sup>a</sup>		
4 Urinals					
5 Shower Heads	FLOW CONTROL	11.4	1 <sup>a</sup>		
6 Dishwashers					
Sinks	KITCHEN SINK AERATOR	9.5	1 <sup>a</sup>		
Ice Makers					

### Additional Notes

BLDGs 507-508 + 509 - SHARED BATHS - SUITES INCLD.

BLDGs 505 + 506 SHARED BATHS

<sup>a</sup> 1 UNIT TYP. FOR 207 UNIT.

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 505

Year Const:

Function TRANSIENT QRTS.

No of Occupants 13 SUITS, 32 INDV. ROOM. Operating Hours: 24 HOUR

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	58	
2 Utility Sinks	NO AERATOR	45.4	4	
3 Water Closets	KOHLER FLUSH VALVE STANDARD FLUSH VALVE	17 17	45 1	
4 Urinals				
5 Shower Heads	FLOW CONTROL	5.7	45	
6 Dishwashers				
Sinks	KITCHEN, AERATOR	9.5	1	
Ice Makers				

### Additional Notes

10 CLEANING STAFF

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 506

Year Const:

Function TRANSIENT QRTS.

No of Occupants 29 SUITES / 10 CLEAN STAFF Operating Hours: 24 HOURS.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	58	
2 Utility Sinks	NO AERATOR	45.4	41	
3 Water Closets	KOHLER FLUSH VALVE	17.	29	
	STANDARD FLUSH VALVE	17	1	
4 Urinals				
5 Shower Heads	FLOW CONTROL	5.7	29	
6 Dishwashers				
Sinks	KITCHEN, AERATOR	9.5	29	
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.:	507	Year Const:		
No of Occupants	37 UNITS OCLEANING STAFF	Function	VOC	
		Operating Hours:	24 HOUR RESIDENCE	
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	37	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	AMERICAN STD. TANK TOP	17	37	
4 Urinals				
5 Shower Heads	FLOW CONTROL	16.1	37	
6 Dishwashers				
Sinks	KITCHEN, AERATOR	2.5	16	
Ice Makers				
Additional Notes SIMILAR FOR BLDGS. 508 & 509				

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: G10

Year Const:

Function

VET CLINIC

No of Occupants 17

Operating Hours: 7:00AM - 5:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	AERATOR	9.5	2	
SURG. SINKS	AERATOR	9.5	8	
KIT. SINK	AERATOR	9.5	1	
2				
Utility Sinks				
3				
Water Closets	KOHLER FLUSH VALVE	12	2	
4				
Urinals				
5				
Shower Heads	NO FLOW CONTROL	11.4	1	
6				
Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

DOGS HOSED DOWN EVERY DAY 3 MIN. EACH DOG  
ABOUT 8 DOGS ON AVG.

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 612

Year Const:

Function PRINT PLANT

No of Occupants 7

Operating Hours: 7:30 AM. - 3:30 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	5	
2 Utility Sinks	NO AERATOR	45.4	3	
3 Water Closets	"STANDARD" FLUSH VALVE	17	5	
4 Urinals	"STANDARD" FLUSH VALVE	11.4	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 630

Year Const:

Function ADMIN. GEN.

No of Occupants 17

Operating Hours: 6:30 AM - 7:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	AERATOR	9.5	2	
LAV. SINK	NO AERATOR	20.9	1	
2				
Utility Sinks				
3				
Water Closets	"STANDARD" FLUSH VALVE	17	4	
4				
Urinals	AMERICAN STD. FLUSH VALVE	5.7	1	
5				
Shower Heads				
6				
Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 708

Year Const:

Function

WARE HOUSE

No of Occupants 5

Operating Hours: 6:30 AM - 4:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	NO AERATOR	11.4	3	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE	17	3	
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

## Additional Notes

BLDG 708 SIMILAR FOR BLDGS: 707 & 712

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 711

Year Const:

Function

WAREHOUSE

No of Occupants 5

Operating Hours: 6:30-4:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	NO AERATOR	11.4	4	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE	17	4	
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 714

Year Const:

Function FLEET

No of Occupants 24

Operating Hours: 7:30 AM - 5:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	NO AERATOR	11.4	1	
LAV. SINK	AERATOR	9.5	2	
2				
Utility Sinks				
3				
Water Closets	KOHL FLUSH VALVE	17	4	
4				
Urinals	STANDARD" FLUSH VALVE	5.7	1	
5				
Shower Heads				
6				
Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 801 (THIRD FLOOR)

Year Const:

Function

BILLETS

No of Occupants

56

Operating Hours:

24 HOURS

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL FAUCET NO AERATOR	16.1	43	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17.	43	
4 Urinals				
5 Shower Heads	FLOW CONTROL	9.5	43	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

\* 43 APPT.

300-3

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 802

Year Const:

Function

MEDICAL COMPANY

No of Occupants 15

Operating Hours:

7:00AM - 5:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DAUL FAUCET	16.1	2	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17.	2	
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE:

FACILITY NO.: 806

Year Const:

Function

APARTMENT

No of Occupants 9 ROOMS / 7 PEOPLE

Operating Hours: 24 HOURS

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	1	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	1	
4 Urinals				
5 Shower Heads	FLOW CONTROL	20	1	
6 Dishwashers				
Sinks	KIT. SINK AERATOR	9.5	1	
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

## FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE:

FACILITY NO.: 807

Year Const:

No of Occupants ~~998~~ 15

Function APARTMENT

Operating Hours: 24 HOURS

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	NO AERATOR	11.4	1	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	1	
4 Urinals				
5 Shower Heads	FLOW CONTROL	7.0	1	
6 Dishwashers				
Sinks	KIT. SINK. AERATOR	9.5	1	
Ice Makers				

## Additional Notes

4 APART. SHARE 1 KITCHEN.  
(13 APARTMENT IN ALL)

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 808 (Public Toilets)  
 Year Const: \_\_\_\_\_  
 805 EMPLOYEES Function HOSPITAL  
 No of Occupants 30 PATIENT CAPACITY Operating Hours: 24 HOURS

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	NO AERATOR	16.1	19	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	18	
4 Urinals	FLUSH VALVE FLUSH VALVE	16.1 5.7	3 1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

30 PT. TLTS - 30 PATIENT CAPACITY

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
 Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 808 KIT/CAFETERIA Year Const: \_\_\_\_\_  
 Function HOSPITAL  
 No of Occupants 35 Operating Hours: 4:30AM - 7:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks				
SINGLE COMP.		22.7	3	
DBL. COMP.		22.7	2	
2 Utility Sinks				
POT SINK	FILL EACH 3-4 TIMES		1	
3 COMP.	20 GAL. SA. COMPT.		1	
3 Water Closets				
4 Urinals				
5 Shower Heads				
6 Dishwashers	RUNS: CONTIN. FROM 12:00 - 1:30 PM		1	
Sinks	CONTIN. FROM 6:00 - 6:30 PM.			
Ice Makers	CONTIN. FROM 8:30 - 9:00 PM.			

### Additional Notes

COMPRESS VAC. PUMP STEAM FROM CENTRAL.

G-TOTAL-LIQUID PINK-WASTED

(2) 350 TON TRANE CENT. VAC.

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 808

Year Const:

Function

OUT PATIENT CLINIC

No of Occupants 435

Operating Hours:

7:00AM - 6:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks				
2 Utility Sinks				
3 Water Closets				
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

WAS NOT SURVEYED.

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 815 (FIRST FLOOR)

Year Const:

Function

CLINIC

No of Occupants 24

Operating Hours: 7:45-4:30

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR EXAM TYPE	9.5	11	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	16.1	1	
4 Urinals	FLUSH VALVE	11.4	1	
5 Shower Heads				
6 Dishwashers				
Sinks	KIT. SINK AERATOR	9.5	1	
Ice Makers				

Additional Notes

1 OF 2

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 81S (SECOND FLOOR) Year Const: \_\_\_\_\_  
 No of Occupants 48 Function: \_\_\_\_\_  
 Operating Hours: \_\_\_\_\_

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR	5.7	9	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	9	
4 Urinals	FLUSH VALVE	11.4	3	
5 Shower Heads	FLOW CONTROL	8.5	5	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

20F 2

SYSTEMS CORP

Systems Engineering And Management Corporation,  
 Knoxville, TN.

## FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE: 6-25-95

FACILITY NO.: 1000

Year Const:

Function

ADMIN

No of Occupants 25

Operating Hours: 7:30 AM - 4:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	2	
2 Utility Sinks				
3 Water Closets	AMERICAN STD. TANK TYPE	1.7	2	
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1001

Year Const:

Function

ADMIN

No of Occupants 43

Operating Hours: 7:30AM - 4:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR NO AERATOR	9.3 11.4	4 1	
2 Utility Sinks				
3 Water Closets	STANDARD TANK TYPE	17.0	8	
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1003

Year Const:

Function YOUTH CENTER

No of Occupants 25 STAFF / 130 KIDS

Operating Hours: 6:00AM - 9:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	8	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	8	
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads				
6 Dishwashers				
Sinks	KIT. SINK AERATOR	9.5	2	
Ice Makers				

Additional Notes

8 AVERAGE DAILY ATTENDANCE

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1018

Year Const:

Function POST CHAPEL

No of Occupants 9

Operating Hours: 7:30AM - 4:30 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	4	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	4	
4 Urinals	FLUSH VALVE	7.0	1	
5 Shower Heads				
6 Dishwashers				
Sinks	KIT SINK AERATOR	9.5	2	
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1024

Year Const:

Function LIBRARY

No of Occupants 11 STAFF

Operating Hours: MON-THUR-8AM-9PM.  
FRI-9AM-6PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	4	
2 Utility Sinks	NO AERATOR	13.5	1	
3 Water Closets	FLUSH VALVE	1.75	4	
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

Ø 5.7 LPM LEAK FROM TOILET PIPES OF HANDICAP RESTROOM.

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1028

Year Const:

Function CHILD DEVLP. CEM/RELIGIOUS

No of Occupants 66 STAFF/250 NON STAFF <sup>A</sup>Operating Hours: 6:00AM-6:00PM - CHILD  
8:00AM-4:00PM - RELIGIOUS

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	50	
2 Utility Sinks	NO AERATOR	45.4	3	
3 Water Closets	FLUSH VALVE	171	30	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks	KIT. SINK AERATOR	9.5	3	
Ice Makers				

### Additional Notes

~~AS~~ BASED ON AVERAGE DAILY ATTENDANCE.

4 WASHERS IN CHILD DEVELOP

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 10-26-95

FACILITY NO.: 1084

Year Const:

Function COLD STORAGE

No of Occupants 6

Operating Hours: 6:00AM - 4:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	NO AERATOR	11.4	2	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	11.7	2	
4 Urinals	FLUSH VALVE	11.4	2	
5 Shower Heads	FLOW CONTROL	7.0	1	
6 Dishwashers				
Sinks	KIT. SINK & NO AERATOR	11.4	1	
Ice Makers				

### Additional Notes

A SINK HAS STEADY LEAK OF 7.0 LPM AROUND PIPE HOOK-UP.  
HAS NOT SENT IN COMPLAINT.

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1099

Year Const:

Function

CLINIC, DENTAL

No of Occupants 32

Operating Hours:

7:00 AM - 4:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR NO AERATOR	8.5 11.4	28 1	
2 Utility Sinks	NO AERATOR	45.4	2	
3 Water Closets	FLUSH VALVE	17	9	
4 Urinals	FLUSH VALVE	5.7	6	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

WATER HOOK-UP TO EACH CHAIR. (12 CHAIRS)

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-24-95

FACILITY NO.: 1108

Year Const:

Function

WHOLESALE STORE

No of Occupants 3

Operating Hours: 9:00AM - 8:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL NO AERATOR AERATOR	16.1 9.5	1 1	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	2	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 1116

Year Const:

Function GEN. MAINT. SHOP

No of Occupants 13-15

Operating Hours: 6:30 A.M. - 4:00 P.M.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	TWO HANDLE, NO AERATOR	11.4	9	
2 Utility Sinks	NO AERATOR	45.4	3	
3 Water Closets	CRANE FLUSH VALVE	17	7	
4 Urinals	CRANE FLUSH VALVE	7	3	
5 Shower Heads	FLOW CONTROL	9.5	3*	
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

\* TWO SHOWER HEADS MISSING

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

## FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1132

Year Const:

Function MAINT. SHOP

No of Occupants 4

Operating Hours: 6:00AM - 5:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	DUAL CONTROL, NO AERATOR	11.4	1	
2				
Utility Sinks	NO AERATOR	45.4	1	
3				
Water Closets	FLUSH VALVE	17	1	
4				
Urinals				
5				
Shower Heads				
6				
Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 5147

Year Const:

Function SPORTS OFF.

No of Occupants 5

Operating Hours: 6:00AM - 6:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL FAUCET NO AERATOR	16.1	1	
2 Utility Sinks	NO AERATOR	43.4	1	
3 Water Closets	FLUSH VALVE	17	1	
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1148

Year Const:

Function GEN. INSTR. BLDG.

No of Occupants 7

Operating Hours: 6:45 AM. - 5:00 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	NO AERATOR	11.41	1	5.7 LPM
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE	17	1	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1150

Year Const:

Function ADMIN.

No of Occupants 2

Operating Hours: 8:30AM - 5:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	NO AERATOR	11.4	4	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	3	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks	KIT. SINK. AERATOR	9.5	1	
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1154

Year Const:

Function MORAL SPOT ACT. CNTR.

No of Occupants 2

Operating Hours: 6:30 AM - 4:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	1	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	1	
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1161

Year Const:

Function

ADMIN.

No of Occupants 13 STAFF / 10 NON STAFF <sup>Operating Hours:</sup> 8:00AM - 4:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL NO AERATOR	16.1	2	
2 Utility Sinks				
3 Water Closets	TANK TYPE	17.	2	
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks	AERATOR	8.5	1	
Ice Makers				

### Additional Notes

<sup>8</sup>BASED ON ACTUAL ATTENDANCE.

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1163

Year Const:

Function SNACK BAR

Operating Hours: SOCIAL EVENTS

No of Occupants

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks				
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	1	
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks	KIT. SINK AERATOR	9.5	1	
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-85

FACILITY NO.: 1166

Year Const:

Function

LAB STORAGE

No of Occupants 4

Operating Hours: 7:30 AM - 4:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	2	
2 Utility Sinks				
3 Water Closets				
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads	FLOW CONTROL	7.0	3	
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

ABLDGS SIMILAR FOR 1165, 1167, 1168.

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1182

Year Const: \_\_\_\_\_  
Function: PHYS. FIT. CENTER

No of Occupants 45 STAFF

Operating Hours: 6:00 AM - 6:00 PM  
9:00 AM - 5:00 PM (SAT)

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL NO AERATOR	9.5	4	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	1.7	6	
4 Urinals	FLUSH VALVE	5.7	3	
5 Shower Heads	FLOW CONTROL	9.5	15	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1194

Year Const:

Function: BANK

No of Occupants 11

Operating Hours: 8:00 AM. - 4:00 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL	9.5	2	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	.3	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1195

Year Const:

Function CREDIT UNION.

No of Occupants 13

Operating Hours: 8:00 AM - 4:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL NO AERATOR SINGLE CONTROL NO AERATOR	9.5 9.5	2 2	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	TANK TYPE	17	3	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1199

Year Const:

Function BOWLING CTR.

No of Occupants 22 STAFF / 70 NON STAFF

Operating Hours: 10:00 AM - 10:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR NO AERATOR	9.5 16.1	7 1	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	10	
4 Urinals	FLUSH VALVE	5.7	3	
5 Shower Heads				
6 Dishwashers				
1 COMP. Sinks	NO AERATOR 2 COMP. DUAL FIXTURE	30.4 19.0	1 1	
Ice Makers			1	

Additional Notes

\* BASED ON AVERAGE DAY

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-27-95

FACILITY NO.: 1200

Year Const:

Function

KITCHEN

No of Occupants 10

Operating Hours: 9:00 AM. - 5:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	NO AERATOR	19	1	
KIT. SINK	*NO AERATOR	22.7	3	
LAVATORY	AERATOR	9.5	1	
WAND	AERATOR	5.7	3	
2				
Utility Sinks	NO AERATOR	45.4	1	
3				
Water Closets				
4				
Urinals				
5				
Shower Heads				
6				
Dishwashers			1	
Sinks				
Ice Makers			1	

### Additional Notes

1 OF 2

2 MEALS A DAY

30 PLATES PER MEAL

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-27-95

FACILITY NO.: 1200

Year Const:

Function NCO

No of Occupants NCO CLUB

Operating Hours: 9:00AM - 5:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	NO AERATOR, DUAL CONTROL DUAL CONTROL, AERATOR	16.1 9.5	8 2	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE	17.	8	
4 Urinals	FLUSH VALVE	5.7	4	
5 Shower Heads				
6 Dishwashers				
Sinks	BAR NO AERATOR GLASS WASHER	16.1 9.5	2 1	
Ice Makers				

### Additional Notes

20 P 2

(PUBLIC TOILETS)

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1414

Year Const:

Function

WARE HOUSE

No of Occupants 60

Operating Hours:

6:00AM - 6:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	WASH SINK 54" DIA. FOOT CONTROL IS CONTINUOUS NOT IN SECTIONS		1	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	4	
4 Urinals	FLUSH VALVE	5.7	7	
5 Shower Heads	FLOW CONTROL	9.5	2	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-85

FACILITY NO.: 1415

Year Const:

Function

WAREHOUSE

No of Occupants 1

Operating Hours: 6AM - 6PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	DUAL CONTROL AERATOR	8.5	2	
WASH FOUNTAIN	SL4" DIA CONTINUOUS FOUNTAIN		3	
2				
Utility Sinks				
3				
Water Closets	FLUSH VALVE	1.7	2	
4				
Urinals	FLUSH VALVE	5.7	7	
5				
Shower Heads	NO SHOWER HEAD FLOW CONTROL	8.5	1	
6				
Dishwashers				
Sinks				
Ice Makers				

Additional Notes

1 of 2

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 1415

Year Const:

No of Occupants 7

Function GEN. INSTR. BLDG.

Operating Hours: 6:30 - 4:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	NO AERATOR	11.4	1	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE	17	1	
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

2 of 2

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1416

Year Const:

Function

ENG. BN.

No of Occupants 5

Operating Hours:

7:30AM. - 4:30PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL NO AERATOR SINGLE FAUCET NO AERATOR	16.1 16.1	6 1	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	1.7	6	
4 Urinals	FLUSH VALVE	5.7	6	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1417

Year Const:

Function

ENGINE WORK

No of Occupants 15

Operating Hours:

8:00AM. - 5:00PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	SINGLE LEVER W/C. STATIONS	9.5 45.4	1 6	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	6	
4 Urinals	3 URIN. ON 1 FLUSH VALUE	5.7	3	
5 Shower Heads	FLOW CONTROL	9.5	2	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1419/1420

Year Const:

Function

DYNA CORP

No of Occupants 117

Operating Hours: 7:15 - 5:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	SINGLE LEVER DUAL FAUCET 5 HAND WASH STATIONS NO AERATOR 36" DIA WASH FOUNTAIN.	8.5 16.1 45.4 1	8 1 5 1	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE FLUSH VALVE	17 17	8 6	
4 Urinals	FLUSH VALVE	5.7	12	
5 Shower Heads				
6 Dishwashers				
Sinks	KITCHEN SINK AERATOR	8.5	1	
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1425 (FIRST FLOOR)

Year Const:

Function

DIV. OF CONSTRU.

No of Occupants 22

Operating Hours: 6AM - 5:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR SINGLE CONTROL AERATOR	9.5 9.5	1 2	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	15	
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

1 OF 2

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1425 (SECOND FLOOR) Year Const: \_\_\_\_\_

Function

No of Occupants 30 Operating Hours: \_\_\_\_\_

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	SINGLE LEVER AERATOR	9.5	3	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	4	
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads	FLOW CONTROL	9.5	2	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

20F2

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-89

FACILITY NO.: 1434

Year Const:

Function

GEN. INST.

No of Occupants 4 STAFF / 150 NON STAFF Operating Hours: 7:00AM - 5:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL NO AERATOR DUAL CONTROL AERATOR	16.1 9.5	2 7	1 .5
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	6	
4 Urinals	FLUSH VALVE	5.7	5	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

\* ON WEEKEND

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-85

FACILITY NO.: 1436

Year Const:

Function

SUPPLY DIV.

No of Occupants 10

Operating Hours:

7:30AM - 4:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR	9.5	5	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	4	
4 Urinals	FLUSH VALVE	5.7	4	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

1 of 2

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 1436

Year Const:

No of Occupants 12

Function TNG BUILDING

Operating Hours: 6:30 AM. - 4:30 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	NO AERATOR	11.4	2	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE	17	2	
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

2 of 2

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1439		Year Const:		
		Function	ADMIN.	
No of Occupants 2		Operating Hours:	6:30AM - 3:00 PM.	
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	SINGLE LEVER AERATOR	9.5	1	
2 Utility Sinks				
3 Water Closets	TANK TYPE	17	1	
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1442 (FIRST FLOOR)

Year Const:

Function DIR. OF PUBLIC WORKS

No of Occupants 60

Operating Hours: 7:30AM - 4:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR	9.5	8	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	117	5	
4 Urinals	FLUSH VALVE	5.7	5	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

10F2

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1442 (SECOND FLOOR) Year Const: \_\_\_\_\_  
 No of Occupants 60 Function DPW.  
 Operating Hours: 7:30 AM. - 4:00 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR DUAL CONTROL NO AERATOR	9.5 16.1	5 2	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	5	
4 Urinals	FLUSH VALVE	5.7	5	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

2 of 2

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1444

Year Const:

Function

BAL. DIST. OF ENL.

No of Occupants 16

Operating Hours:

8:00AM - 4:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR	9.5	3	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	3	
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads	FLOW CONTROL	9.5	1	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1445 (FIRST FLOOR)  
(THIRD FLOOR SIMILAR) Year Const: \_\_\_\_\_  
No of Occupants 100 Function PROGRAM EXEC. OFF. \_\_\_\_\_  
Operating Hours: 7:00 AM - 5:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	SINGLE LEVEL AERATOR	9.5	8	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	8	
4 Urinals	FLUSH VALVE	5.7	4	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

10F2

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 1445 (SECOND FLOOR) Year Const: \_\_\_\_\_  
 Function: \_\_\_\_\_  
 No of Occupants 100 Operating Hours: \_\_\_\_\_

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	SINGLE LEVEL AERATOR	9.5	8	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	11.7	10	
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads	FLOW CONTROL	9.5	2	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

20F2

SYSTEMS CORP

Systems Engineering And Management Corporation,  
 Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1462

Year Const:

Function

ACTIVITY CENTER

No of Occupants 12

Operating Hours:

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	DUAL CONTROL NO AERATOR	16.1	4	
	DUAL CONTROL AERATOR	9.5	2	
2				
Utility Sinks				
3				
Water Closets	FLUSH VALVE	17	6	
4				
Urinals	FLUSH VALVE	5.7	2	
5				
Shower Heads				
6				
Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

MON. & TUES - 10:00AM. - 6:00 PM.  
 WED - FRI - 10:00AM - 6:00 PM  
 SAT & SUN - 10:00AM. - 6:00PM.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1464 (FIRST FLOOR)		Year Const:		
		Function	HEAD QUARTERS	
No of Occupants	298 (ALL FLRS)	Operating Hours:	6:00 AM. - 6:00 PM.	
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR	9.5	12	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	13	
4 Urinals	FLUSH VALVE	5.7	5	
5 Shower Heads	FLOW CONTROL	9.5	2	
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

1 OF 2

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 1464 (SECOND FLOOR)\* Year Const: \_\_\_\_\_

Function

Operating Hours: \_\_\_\_\_

No of Occupants \_\_\_\_\_

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	DUAL CONTROL AERATOR	9.5	4	
2				
Utility Sinks				
3				
Water Closets	FLUSH VALVE	17	4	
4				
Urinals	FLUSH VALVE	5.7	2	
5				
Shower Heads				
6				
Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

\* THIRD FLOOR IS TYP OF SECOND FLOOR.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1465

Year Const:

Function C.I.C.

No of Occupants 280

Operating Hours: 24 HOURS

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR	9.5	26	
2 Utility Sinks	NO AERATOR	45.4	6	
3 Water Closets	FLUSH VALVE	1.7	25	
4 Urinals	FLUSH VALVE	5.7	7	
5 Shower Heads	FLOW CONTROL	9.5	1	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1466

Year Const:

Function

ENL. BKS.

No of Occupants  $\Delta$

Operating Hours: 7:00 AM - 5:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 $\Delta$ Lavatory Sinks	SINGLE LEVEL AERATOR	9.5	4	
2 Utility Sinks				
3 $\Delta$ Water Closets	FLUSH VALVE	17	5	
4 $\Delta$ Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

$\Delta$  FIRST FLR. - 40

SECOND FLR - 50

THIRD FLR. - 30

$\Delta$  TYPICAL FOR EACH FLOOR

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1467

Year Const:

Function CLINIC

No of Occupants 11 STAFF/25 PATIENTS Operating Hours: 6:30 AM. - 4:00 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR	9.5	2	
2 Utility Sinks		9.5	2	
EXTRA SINK	AERATOR			
3 Water Closets	FLUSH VALVE	17.0	2	
4 Urinals				
5 Shower Heads	FLOW CONTROL	9.5	2	
6 Dishwashers				
Sinks	KIT. SINK AERATOR ROSE SPRAY	5.7	1	
Ice Makers				

### Additional Notes

\* BASED ON AVG. DAY.

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1468

Year Const:

Function

INSP. GEN. OFF.

No of Occupants 5

Operating Hours: 7:30 AM - 4:30 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR	9.5	2	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	2	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1469

Year Const:

Function

SAFETY OFFICE

No of Occupants 6

Operating Hours: 6:00AM - 4:30PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL NO AERATOR	9.5	2	
2 Utility Sinks	FAUCET NEEDS REPLACEMENT. LEAKING.		1	
3 Water Closets	FLUSH VALVE	17	2	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1471

Year Const:

No of Occupants 4

Function HEARING CONSERV.

Operating Hours: 7:30AM - 4:30PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR	9.5	3	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	2	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 1472

Year Const:

Function

INFORMATION CENT.

No of Occupants 1 STAFF / 80 NON STAFF <sup>8</sup>Operating Hours: 8:00AM - 4:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR SINGLE CONTROL AERATOR	9.5 8.5	2 4	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE	17	2	
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

<sup>8</sup> DAILY AVG.

FEW PEOPLE USE REST ROOM AS MANY AS 15-20.

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26

FACILITY NO.: 51496

Year Const:

Function

GEN.

No of Occupants 13

Operating Hours: 8:00AM - 5:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR	0.5	5	LAU. 1
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	4	
4 Urinals	FLUSH VALVE	5.7	3	
5 Shower Heads	FLOW CONTROL	8.5	1	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-24-95

FACILITY NO.: 1801\*

Year Const:

Function

BANK

No of Occupants 4

Operating Hours: 9:00AM - 8:00 PM. (LOBBY)  
9:00AM - 7:00 PM. (DRIVE-THRU)

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR	11.4	2	
2 Utility Sinks				
3 Water Closets	TANK TOP	17	2	
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks	KIT. SINK AERATOR	9.5	1	
Ice Makers				

Additional Notes

\*  
~~SEPT 2 TO BE DEMOLISHED~~

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 1804

Year Const:

Function CHAPEL

No of Occupants SUNDAY WORSHIP

Operating Hours: 8:00 AM - 12:00 PM,  
SUNDAY

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks				
2 Utility Sinks				
3 Water Closets				
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

SAME AS CHAPEL NUMBER 435

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

**FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY**

**FIELD SURVEY SHEET**

**DATE: 6-24-85**

**FACILITY NO.:** 1809

**Year Const:**

**Function** ANNEX

**No of Occupants** 40

**Operating Hours:** 6:00 AM. - 4:00 PM.

<b>Number Type</b>	<b>Existing Fixture System Description</b>	<b>LPM</b>	<b>Fixtures Quantity</b>	<b>Water Leaks LPM</b>
1 Lavatory Sinks	DUAL CONTROL AERATOR	9.5	5	
2 Utility Sinks	NO AERATOR	43.4	1	
3 Water Closets	AMERICAN STD. FLUSH VALVE	17	2	
4 Urinals	AMERICAN STD. FLUSH VALVE	5.7	5	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

**Additional Notes**

**SYSTEMS CORP**

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-24-95

FACILITY NO.: 1822

Year Const:

Function DINNING HALL

No of Occupants 412

Operating Hours: 6:30 AM - 8:00 PM\* M-F

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR NO AERATOR	9.5 11.4	5 5	
2 Utility Sinks	NO AERATOR	45.4	2	
3 Water Closets	FLUSH VALVE	17	4	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads	FLOW CONTROL	7.0	2	
6 Dishwashers	INSINGER 20 PSI 20 GAL TANK		2	
WAND Sinks	FLOW CONTROL KIT. SINK. DUAL CONT. NO AERATOR	7.0 11.4	7 9	5.7 LPM
Ice Makers				

### Additional Notes

\* 7:30 AM - 5:00 PM (WEEKEND)

\* 400 PEOPLE SERVED A DAY.

SYSTEMS CORP

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 1824

Year Const:

Function

CHAPEL

No of Occupants

Operating Hours:

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks				
2 Utility Sinks				
3 Water Closets				
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SAME AS CHAPEL NUMBER 435

**SYSTEMS CORP**

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 1906

Year Const:

Function VEHICLE MAINT.

No of Occupants 7

Operating Hours: 6:30 AM - 4:30 PM, 5 DAY

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL, NO AERATOR	11.4	3	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	AMERICAN STD. FLUSH VALVE	17	2	
4 Urinals	STANDARD" FLUSH VALVE	5.6	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

WASH 7 VEHICLES TWICE WEEKLY

WATER RUNS THROUGH-OUT PERIOD.

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 1949

Year Const:

Function VEHICLE MAINT.

No of Occupants 8

Operating Hours: 7:00 AM. - 4:30 PM. 5 DAY

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR CIRCULAR WASH FOUNTAIN	9.5	1 1	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE	17	3	
4 Urinals	FLUSH VALVE	11.4	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 1950

Year Const:

Function VEHICLE MAINT.

No of Occupants 25

Operating Hours: 9:00AM - 4:30 PM. 5 DAYS

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	CIRCULAR WASH FOUNTAIN		1	
2 Utility Sinks	NO AERATOR	43.4	1	
3 Water Closets	FLUSH VALVE	17	2	
4 Urinals	FLUSH VALVE	5.7	3	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 1955/1982 \*

Year Const:

Function

NAVAL RESERVE DRILL

No of Occupants 5 ACTIVE DUTY

200 RESERVE \*

Operating Hours:

7:30 AM - 3:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	NO AERATOR	11.4	5	
MEDICAL SINK	NO AERATOR	11.4	1	
2 Utility Sinks				
3 Water Closets	AMERICAN STD.	17	4	
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads	FLOW CONTROL	9.5	1	
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

\* RESERVES ONLY ON WEEKEND.

ACTIVE DUTY 7 DAYS WEEK

\* COVERS BLDGS 1955-1959, 1963, 1966, 1968, & 1982  
BLDG 1966 SCHEDULED FOR DEMOLITION YR 2000

**SYSTEMS CORP**

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-27-95

FACILITY NO.: 2102

Year Const:

Function ENL. BKS.

No of Occupants 80% OCCUPANCY

Operating Hours:

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR	8.5	2	
KITCHENETTE	SINGLE CONTROL AERATOR	9.5	1	
2 Utility Sinks				
DAY ROOM	NO AERATOR	30.4	2	
3 Water Closets	FLUSH VALVE	17	3	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads	FLOW CONTROL	9.5	1	
6 Dishwashers				
WASHER Sinks			7	
Ice Makers				

### Additional Notes

#### ON SHEET:

(1) DAY ROOM (TYP. FOR EACH BUILDING).

(1) BARRACKS (TOTAL 67 EA. BLDG.) - 1-KITCHENETTE, 1- DAY ROOM, 1- WTR CLOSET,  
1-SHOWER PER RM

BLDG. 2102 SIMILAR FOR 2103, 2104, 2109, 2110, 2111

**SYSTEMS CORP**

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# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-27-95

FACILITY NO.: 2105 ABC

Year Const:

Function ADMIN

No of Occupants 316/8

Operating Hours: 7:00 AM - 5:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1	Lavatory Sinks DUAL CONTROL, AERATOR	9.5	6	
2	Utility Sinks NO AERATOR	45.4	2	
FAUCET ONLY	DUAL CONTROL, NO AERATOR (HOSE BIBS)	45.4	2	
3	Water Closets FLUSH VALVE	17	7	
4	Urinals FLUSH VALVE	5.7	3	
5	Shower Heads			
6	Dishwashers			
Sinks				
Ice Makers				

### Additional Notes

BLDG 2105 SIMILAR FOR:

BLDG 5 - 2101 & 2113

**SYSTEMS CORP**

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 2115

Year Const:

Function HEALTH CLINIC

No of Occupants 3 STAFF / 15-20 PATIENTS <sup>Operating Hours: 8:00AM - 4:30PM (M-F)</sup>

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	DUAL CONTROL	9.5	3	
2				
Utility Sinks	NO AERATOR	45.4	1	
3				
Water Closets	FLUSH VALVE	17	3	
4				
Urinals	FLUSH VALVE	5.7	1	
5				
Shower Heads	FLOW CONTROL	9.5	1	
6				
Dishwashers				
PATIENT ROOMS Sinks	DUAL CONTROL NO AERATOR	19.0	3	
Ice Makers				

Additional Notes

BASED ON DAILY AVG.

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-24-95

FACILITY NO.: 2116

Year Const:

Function

FITNESS CENTER

No of Occupants 3 STAFF

Operating Hours: 8:00 AM - 6:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	12	
2 Utility Sinks				
3 Water Closets	ZURN <sup>®</sup> FLUSH VALVE	17	12	
4 Urinals	ZURN FLUSH VALVE	5.7	6	
5 Shower Heads	FLOW CONTROL	7.6	28	
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

→ ZURN WC1LC

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 2118

Year Const:

Function

ADMIN.

No of Occupants 25

Operating Hours: 6:30 AM - 6:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	DUAL CONTROL NO AERATOR DUAL CONTROL AERATOR	9.5 9.5	1 1	
2				
Utility Sinks				
3				
Water Closets	FLUSH VALVE	.17	1	
4				
Urinals	FLUSH VALVE	5.7	2	
5				
Shower Heads				
6				
Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 2119

Year Const:

Function

FIRE STATION

No of Occupants

9

Operating Hours:

24 HOURS

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR	9.5	6	
2 Utility Sinks				
3 Water Closets	TANK TYPE FLUSH VALVE	17 17	1 4	
4 Urinals	FLUSH VALVE	5.7	4	
5 Shower Heads	FLOW CONTROL	9.5	4	
6 Dishwashers				
Sinks	AERATOR	9.5	1	
Ice Makers				

Additional Notes

WASH TRUCKS 4 EVERY WEEK, 30 MIN. EACH TRUCK.

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-27-95

FACILITY NO.: 2302

Year Const:

Function

COMMISSARY

No of Occupants 50

Operating Hours: 9:00 AM - 9:00 PM, 7 DAY.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL CONTROL AERATOR NO AERATOR	9.5 16.1	3 11	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE		17	17
4 Urinals	FLUSH VALVE	14.50	8	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

# 1 OF 2

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-27-95

FACILITY NO.: 2302

Year Const:

Function COMMISARY

No of Occupants

Operating Hours: 9:00AM - 9:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	DUAL FAUCET, AERATOR KNEE ACTIVATED	9.5 9.5	3 1	
2 Utility Sinks	NO AERATOR	30.4	2	
3 Water Closets				
4 Urinals				
5 Shower Heads				
6 Dishwashers				
3 COMP. Sinks	2 FAUCET	19	4	
Ice Makers				

Additional Notes

# 20P2

FIXTURES FOR  
MEAT/BAKERY/PRODUCE

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26-95

FACILITY NO.: 2310

Year Const:

Function

COMM. CENTRAL LINK

No of Occupants 90

Operating Hours:

24 HOURS

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	NO AERATOR	11.4	2	
	AERATOR	2.5	1	
2				
Utility Sinks	NO AERATOR	45.4	1	
3				
Water Closets	FLUSH VALVE	17	3	
4				
Urinals	FLUSH VALVE	5.7	1	
5				
Shower Heads	FLOW CONTROL	7.0	1	
6				
Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-24-95

FACILITY NO.: 2393

Year Const:

Function

INDOOR PISTOL RANGE

No of Occupants 5 STAFF / 100 NON STAFF \* Operating Hours: 9:00 AM - 4:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	2	3.8 LPM
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	2	
4 Urinals	FLUSH VALVE	5.7	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

\* ON AN AVERAGE DAY

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

1 of 3

FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY				
FIELD SURVEY SHEET			DATE: 6-28-95	
FACILITY NO.:	2462 WINGS A-J 1ST. F.R.	Year Const:		
No of Occupants		Function	D.L.A	
Operating Hours:				
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	WITH METER	9.5	53	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	41	
4 Urinals	FLUSH VALVE	5.7	9	
5 Shower Heads	WITH Flow Control	11.4	19	
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

2 of 3

FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY				
FIELD SURVEY SHEET				DATE: 6-28-95
FACILITY NO. :		Year Const:		
2462 WINGS A-J ATRIUM		Function	D.L.A.	
No of Occupants		Operating Hours:		
Number	Type	Existing Fixture System Description	LPM	Fixtures Quantity
1	Lavatory Sinks	w/ AERATOR	9.5	32
2	Utility Sinks			
3	Water Closets	FLUSH VALVE	17	31
4	Urinals	FLUSH VALVE	5.7	7
5	Shower Heads	w/ Flow Cont.		
6	Dishwashers			
	Sinks			
	Ice Makers			
Additional Notes				

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

3 of 3

FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY		FIELD SURVEY SHEET		DATE: 6-28-95	
FACILITY NO.: <u>2462</u> <u>WINGS A-J 2nd FLOOR</u>		Year Const: <u>1995</u> Function <u>D.L.A</u>		Operating Hours:	
No of Occupants					
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM	
1 Lavatory Sinks	<u>w/ AERATOR</u>	<u>9.5</u>	<u>41</u>		
2 Utility Sinks					
3 Water Closets	<u>FLUSH VALVE</u> <u>TANK</u>	<u>17</u> <u>13.3</u>	<u>37</u> <u>4</u>		
4 Urinals	<u>FLUSH VALVE</u>	<u>5.7</u>	<u>9</u>		
5 Shower Heads	<u>w/ Flow Control</u>	<u>11.4</u>	<u>4</u>		
6 Dishwashers					
Sinks					
Ice Makers					
Additional Notes		<u>3RD &amp; 4TH FLOORS TYPICAL OF 2ND FLOOR</u>			

SYSTEMS CORP

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# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-24-95

FACILITY NO.: 2470

Year Const:

Function RESERVE CENTER

No of Occupants 50

Operating Hours: 7:30AM - 4:30PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR NO AERATOR	9.5 16.1	2 4	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	6	
4 Urinals	FLUSH VALVE	5.7	4	
5 Shower Heads	NO FLOW CONTROL	15.3	3	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

1 of 2

SYSTEMS CORP

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-24-95

FACILITY NO.: 2470

Year Const:

Function RESERVE CENTER

No of Occupants 35

Operating Hours: 7:30AM - 4:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	AERATOR	9.5	14	
2				
Utility Sinks				
3				
Water Closets	AMERICAN STD. FLUSH VALVE	17	8	
4				
Urinals	STANDARD FLUSH VALVE	11.4	9	
5				
Shower Heads	NO FLOW CONTROL	11.4	3	
6				
Dishwashers	DO NOT USE	—	1	
Sinks	AERATOR	9.5	1	
	NO AERATOR	45.4	1	
Ice Makers				
CAN WASH	NO SPRAY NOZZLE	76	1	

Additional Notes

20f2

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-26

FACILITY NO.: 2901/2920

Year Const:

Function NORTH BG CLUB HOUSE

No of Occupants 93

Operating Hours: 6:30 AM. - 8:30 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	ELECTRIC SENSOR WITH AERATOR	5.7	8	
HAND LAV.	AERATOR	9.5	2	
2 Utility Sinks				
3 Water Closets	FLUSH VALVE (ELECT. SENSOR)	17	8	
4 Urinals	H.C. ELECT. SENSOR H.C. SENSOR NOT WORKING	11.4 1.5	1 1	
5 Shower Heads	FLOW CONTROL	9.5	6	
6 Dishwashers	JACKSON 200 SERIES		1	
2 COMPT. Sinks	2 AERATOR	9.5	1	
3 COMPT. Ice Makers	NO AERATOR	30.4	1	
BAR SINK	AERATOR	9.5	1	
Additional Notes				

**SYSTEMS CORP**

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-24-95

FACILITY NO.: ~~290~~ 290

Year Const:

Function

DRMO

No of Occupants 50 BUYERS / 32 STAFF

Operating Hours:

7:30AM - 3:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR NO AERATOR	9.5 16.1	1 1	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE TANK TOP	17 17	2 2	
4 Urinals	FLUSH VALVE	5.7	1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

### Additional Notes

ON AN AVERAGE BUSINESS DAY.

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO.: 3121

Year Const:

Function ARMY NAT'L GUARD

No of Occupants 40-M-F / 20-SAT-SUN.

Operating Hours: 6:30 AM - 4:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	5	
2 Utility Sinks				
3 Water Closets	AMERICAN STD. FLUSH VALVE	17	5	
4 Urinals	AMERICAN STD. FLUSH VALVE.	11.4	4	
5 Shower Heads	FLOW CONTROL	11.4	2	
6 Dishwashers				
Sinks	KIT. SINK AERATOR	9.5	1	
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 3123

Year Const:

Function ARMY NATIONAL GUARD.

No of Occupants 20 + 175

Operating Hours: 7:00AM. - 4:30 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	NO AERATOR AERATOR METERING FAUCET	11.4 9.5 5.7	2 5 2	
2 Utility Sinks	SMALL. NO AERATOR	45.4	1	
3 Water Closets	KOHL FLUSH VALVE REGAL SLOAN FLUSH VALVE	17 17	2 3	
4 Urinals	FLUSH VALVE	11.4	3	
5 Shower Heads	FLOW CONTROL KOHLER SAFETY MIX.	7.0 9.5	1 2	
6 Dishwashers	DOES NOT WORK		1	
PRE-RINSE Sinks	NO AERATOR	15.4	3	
Ice Makers			1	

### Additional Notes

KITCHEN HOURS 8:00 AM. - 3:00 PM. 2 MEALS A DAY. 30  
PEOPLE PER. 3 OCCUPANTS  
MESS FUNCTION WEEKENDS ONLY  
SERVING 170 - 175 A DAY.

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 3126

Year Const:

Function

NIGHT VISIONS OPER.

No of Occupants 15-20

Operating Hours: 7:30AM - 5:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	NO AERATOR	11.4	4	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	ROYAL SLOAN FLUSH VALVE	17	4	
4 Urinals	STANDARD FLUSH VALVE	11.4	4	
5 Shower Heads	FLOW CONTROL NO FLOW CONTROL	5.7 22.7	1 1	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO.: 3128

Year Const:

Function

NIGHT VISIONS OPS.

No of Occupants 15-20

Operating Hours:

7:30AM - 5:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	2	
2 Utility Sinks				
3 Water Closets	ROYAL SLOAN FLUSH VALVE	17	3	
4 Urinals	STANDARD FLUSH VALVE	11.4	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				
Additional Notes				

SYSTEMS CORP

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO.: 3136

Year Const:

Function

HEAD QUARTERS

No of Occupants 21

Operating Hours: DESK-24 HOURS / REG. 7AM-5PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR NO AERATOR	8.5 19.0	2 2	
2 Utility Sinks	NO AERATOR	48.4	4	
3 Water Closets	FLUSH VALVE	17	4	
4 Urinals	AMERICAN STD. FLUSH VALVE	11.4	1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

FIELD SURVEY SHEET

DATE:

FACILITY NO.: 3137

Year Const:

Function PX / Airfield Svcs

No of Occupants 4 STAFF + CUSTOMERS / 13 Operating Hours: 6:30 AM - 1:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	NO AERATOR	11.4	4	
2 Utility Sinks	NO AERATOR	45.4	1	
3 Water Closets	FLUSH VALVE	17	3	
4 Urinals	STANDARD FLUSH VALVE	11.4	1	
5 Shower Heads				
6 Dishwashers				
Sinks	DUAL CONTROL KIT SINK AER.	9.5	2	
Ice Makers				

Additional Notes

**SYSTEMS CORP**

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 3138

Year Const:

Function

UTILITY PLANT

No of Occupants 8

Operating Hours: —

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks				
2 Utility Sinks				
3 Water Closets	FLUSH VALVE	17	1	
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO.: 3140

Year Const:

Function

HANGER

No of Occupants 20

Operating Hours: 5:30 AM. - 6:00 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	2	
2 Utility Sinks	AERATOR	12	1	
3 Water Closets	FLUSH VALVE	17	1	
4 Urinals	FLUSH VALVE	11.4	1	
5 Shower Heads	FLOW CONTROL NO FLOW CONTROL	9.5 15.2	1 1	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 345

Year Const: WALSH HGR

Function FIXED WING MAINT.

No of Occupants 10-12

Operating Hours: 9:00AM - 12:00AM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	NO AERATOR	11.4	4	
2 Utility Sinks	NO AERATOR	43.4	2	
3 Water Closets	FLUSH VALVE	17.	13	
4 Urinals	STANDARD FLUSH VALVE	18.4	4	
5 Shower Heads	FLOW CONTROL	9.5	2	
6 Dishwashers				
Sinks	WASH FOUNDATION		2	
Ice Makers				

### Additional Notes

AIRCRAFT WASHER USED 3-4 TIMES A WEEK.  
30 MIN. AT HIGH PRESSURE OR 1" HOSE, 7 PLANES.

**SYSTEMS CORP**

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO.: 3146

Year Const:

Function FLIGHT SIMULATOR

No of Occupants 9

Operating Hours: 7:00AM - 5:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	3	
2 Utility Sinks	NO AERATOR	45.41	1	
3 Water Closets	FLUSH VALVE	17	4	
4 Urinals	STANDARD FLUSH VALVE	11.4	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 3151

Year Const:

Function ROTAR WING MAINT.

No of Occupants 35

Operating Hours: 6:30AM - 4:00PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AGATOR	9.5	5	
2 Utility Sinks	NO AERATOR	45.4	5	
3 Water Closets	ROYAL FLUSH VALVE	17	11	
4 Urinals	STANDARD FLUSH VALVE	11.4	4	
5 Shower Heads	FLOW CONTROL NO FLOW CONTROL	7 16.1	1 1	
6 Dishwashers				
Sinks	TROUGH		1	
Ice Makers				

Additional Notes

**SYSTEMS CORP**

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Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO.: 3165 Year Const: \_\_\_\_\_  
 No of Occupants 50 Function OSAC  
 Operating Hours: 6:30 am - 4:30 pm (m-f)

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	3	
2 Utility Sinks	NO AERATOR. (CHOSE B1B)	45.4	1	
3 Water Closets	FLUSH VALVE	17	3	
4 Urinals	STANDARD FLUSH VALVE	11.4	1	
5 Shower Heads	FLOW CONTROL	9.5	2	
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

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 Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO.: 3230 Year Const: \_\_\_\_\_  
 No of Occupants 10 Function AIR TRAFFIC CONTROL  
 Operating Hours: 24 HOUR

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	2	
2 Utility Sinks				
3 Water Closets	AMERICAN STD. FLUSH VALVE	17	2	
4 Urinals				
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
 Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO.: 3231

Year Const:

Function

LEWIS STONE

No of Occupants 34

Operating Hours: 7:30 AM. - 5:00 PM.

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1				
Lavatory Sinks	AERATOR	9.5	2	
LAV. SINK	NO AERATOR	11.4	9	
2				
Utility Sinks	NO AERATOR	45.4	1	
3				
Water Closets	AMERICAN STD. FLUSH VALVE	17	4	
	CROWN ROYAL FLUSH VALVE	17	4	
	SLOAN FLUSH VALVE	17	1	
4				
Urinals	FLUSH VALVE	5.7	5	
5				
Shower Heads	FLOW CONTROL	9.5	2	
6				
Dishwashers				
Sinks	THROUGH, FOOT CONTROL		2	
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO.: 3232		Year Const:			
No of Occupants 30		Function MILLER HANGER			
		Operating Hours: 7:30AM - 5:00PM			
Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM	
1 Lavatory Sinks	NO AERATOR	16.1	5		
2 Utility Sinks					
3 Water Closets	STANDARD FLUSH VALVE	17	4		
4 Urinals	FLUSH VALVE	5.7	2		
5 Shower Heads					
6 Dishwashers					
Sinks					
Ice Makers					

### Additional Notes

WASH CHOPPERS 2 PER WEEK WITH  
52.3 LPM FAUCET. EACH CHOPPER IS WASHED  
FOR 15 MIN.

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE:

FACILITY NO.: 3234

Year Const:

Function

ADMIN

No of Occupants 12

Operating Hours: 7:30 AM - 5:00 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	1	
2 Utility Sinks				
3 Water Closets	ROYAL SLOAN FLUSH VALVE	17:	1	
4 Urinals	CRANE FLUSH VALVE	11.4	1	
5 Shower Heads				
6 Dishwashers				
Sinks	KITCHEN SINK, AERATOR	9.5	1	
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-22-95

FACILITY NO.: 3235

Year Const:

Function HEADQUARTERS

No of Occupants 25

Operating Hours: 6:30 AM - 6:30 PM

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	3	
LAV. SINK	NO AERATOR	19.0	1	
2 Utility Sinks	NO AERATOR	22.7	1	
3 Water Closets	AMERICAN STD. FLUSH VALVE	17	4	
4 Urinals	FLUSH VALVE	5.2	1	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

SYSTEMS CORP

Systems Engineering And Management Corporation,  
Knoxville, TN.

# FY95S EEAP FT. BELVOIR WATER CONSERVATION STUDY

## FIELD SURVEY SHEET

DATE: 6-23-95

FACILITY NO.: 3237

Year Const:

Function A' FLO FIRE DEPARTMENT

No of Occupants 8

Operating Hours: 24 HOUR

Number Type	Existing Fixture System Description	LPM	Fixtures Quantity	Water Leaks LPM
1 Lavatory Sinks	AERATOR	9.5	2	
2 Utility Sinks	NO AERATOR	454	1	
3 Water Closets	SLOAN FLUSH VALVE	17	2	
4 Urinals	CRANE FLUSH VALVE	5.7	2	
5 Shower Heads				
6 Dishwashers				
Sinks				
Ice Makers				

Additional Notes

**SYSTEMS CORP**

Systems Engineering And Management Corporation,  
Knoxville, TN.